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a	cag	gac	gct	gta	gct	tca	aaa	atc	tta	gga	ttg	cct	acg	cag	act	gtt	49
Gln	Asp	Ala	Val	Ala	Ser	Lys	Ile	Leu	Gly	Leu	Pro	Thr	Gln	Thr	Val		
1				5				10				15					
gat	tca	tca	cag	ggt	tct	gaa	tat	gac	tat	gtc	ata	ttc	aca	caa	act		97
Asp	Ser	Ser	Gln	Gly	Ser	Glu	Tyr	Asp	Tyr	Val	Ile	Phe	Thr	Gln	Thr		
			20					25				30					
act	gaa	aca	gca	cac	tct	tgt	aat	gtc	aac	cgc	ttc	aat	gtg	gct	atc		145
Thr	Glu	Thr	Ala	His	Ser	Cys	Asn	Val	Asn	Arg	Phe	Asn	Val	Ala	Ile		
			35				40					45					
aca	agg	gca	aaa	att	ggc	att	ttg	tgc	ata	atg	tct	gat	aga	gat	ctt		193
Thr	Arg	Ala	Lys	Ile	Gly	Ile	Leu	Cys	Ile	Met	Ser	Asp	Arg	Asp	Leu		
			50			55					60						
tat	gac	aaa	ctg	caa	ttt	aca	agt	cta	gaa	ata	cca	cgt	cgc	aat	gtg		241
Tyr	Asp	Lys	Leu	Gln	Phe	Thr	Ser	Leu	Glu	Ile	Pro	Arg	Arg	Asn	Val		
65					70					75				80			
gct	aca	tta	caa	gca	gaa	aat	gta	act	gga	ctt	ttt	aag	gac	tgt	agt		289
Ala	Thr	Leu	Gln	Ala	Glu	Asn	Val	Thr	Gly	Leu	Phe	Lys	Asp	Cys	Ser		
				85				90				95					
aag	atc	att	act	ggt	ctt	cat	cct	aca	cag	gca	cct	aca	cac	ctc	agc		337
Lys	Ile	Ile	Thr	Gly	Leu	His	Pro	Thr	Gln	Ala	Pro	Thr	His	Leu	Ser		
			100					105				110					
gtt	gat	ata	aaa	ttc	aag	act	gaa	gga	tta	tgt	gtt	gac	ata	cca	ggc		385
Val	Asp	Ile	Lys	Phe	Lys	Thr	Glu	Gly	Leu	Cys	Val	Asp	Ile	Pro	Gly		
			115				120					125					
ata	cca	aag	gac	atg	acc	tac	cgt	aga	ctc	atc	tct	atg	atg	ggc	ttc		433
Ile	Pro	Lys	Asp	Met	Thr	Tyr	Arg	Arg	Leu	Ile	Ser	Met	Met	Gly	Phe		
			130			135					140						
aaa	atg	aat	tac	caa	gtc	aat	ggt	tac	cct	aat	atg	ttt	atc	acc	cgc		481
Lys	Met	Asn	Tyr	Gln	Val	Asn	Gly	Tyr	Pro	Asn	Met	Phe	Ile	Thr	Arg		
145					150					155				160			
gaa	gaa	gct	att	cgt	cac	gtt	cgt	gcg	tgg	att	ggc	ttt	gat	gta	gag		529
Glu	Glu	Ala	Ile	Arg	His	Val	Arg	Ala	Trp	Ile	Gly	Phe	Asp	Val	Glu		
				165				170						175			
ggc	tgt	cat	gca	act	aga	gat	gct	gtg	ggc	act	aac	cta	cct	ctc	cag		577
Gly	Cys	His	Ala	Thr	Arg	Asp	Ala	Val	Gly	Thr	Asn	Leu	Pro	Leu	Gln		
			180					185				190					
cta	gga	ttt	tct	aca	ggc	gtt	aac	tta	gta	gct	gta	ccg	act	ggc	tat		625
Leu	Gly	Phe	Ser	Thr	Gly	Val	Asn	Leu	Val	Ala	Val	Pro	Thr	Gly	Tyr		
			195			200						205					
gtt	gac	act	gaa	aat	aac	cta											646
Val	Asp	Thr	Glu	Asn	Asn	Leu											
			210			215											

FIG. 1

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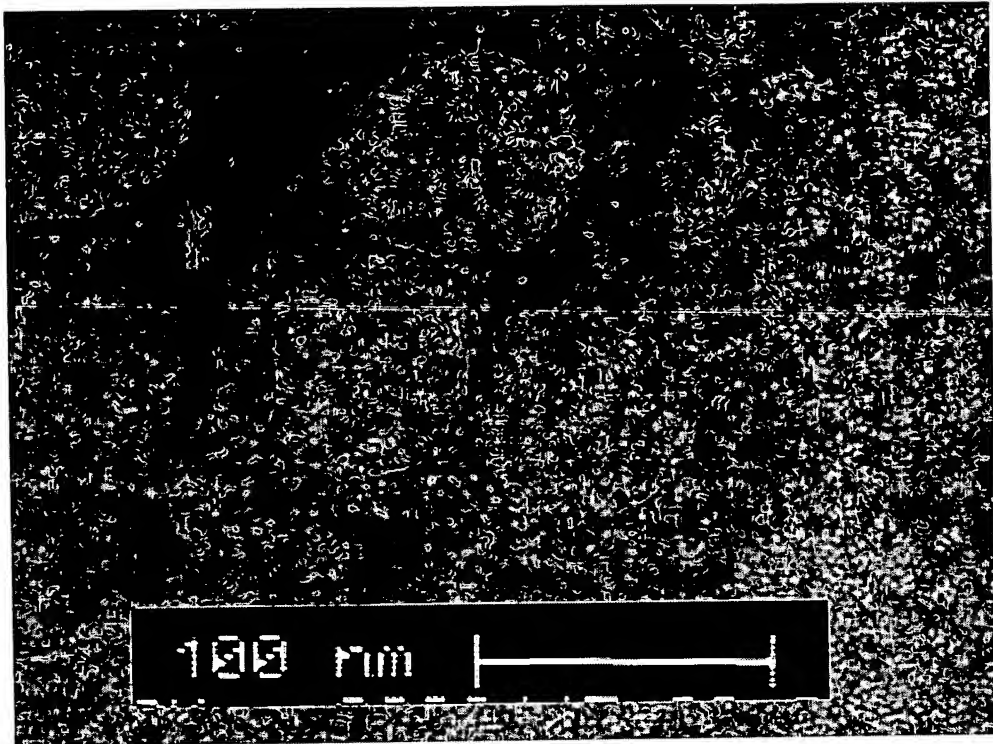


FIG. 2

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FIG. 3

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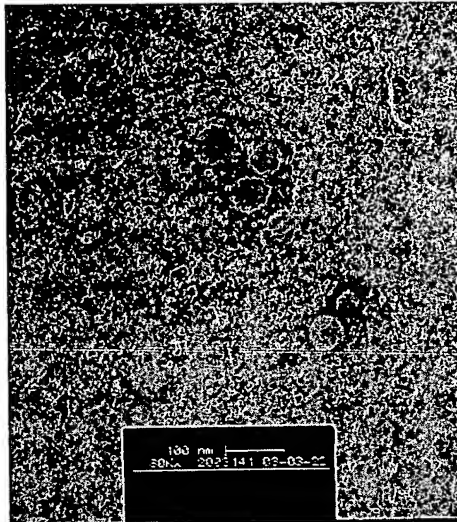


FIG. 4

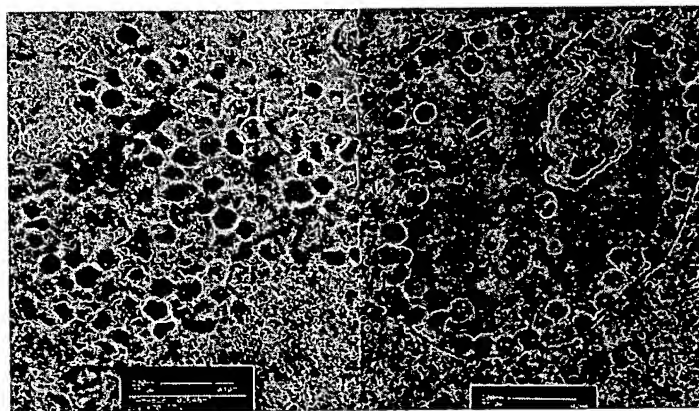


FIG. 5A

FIG. 5B

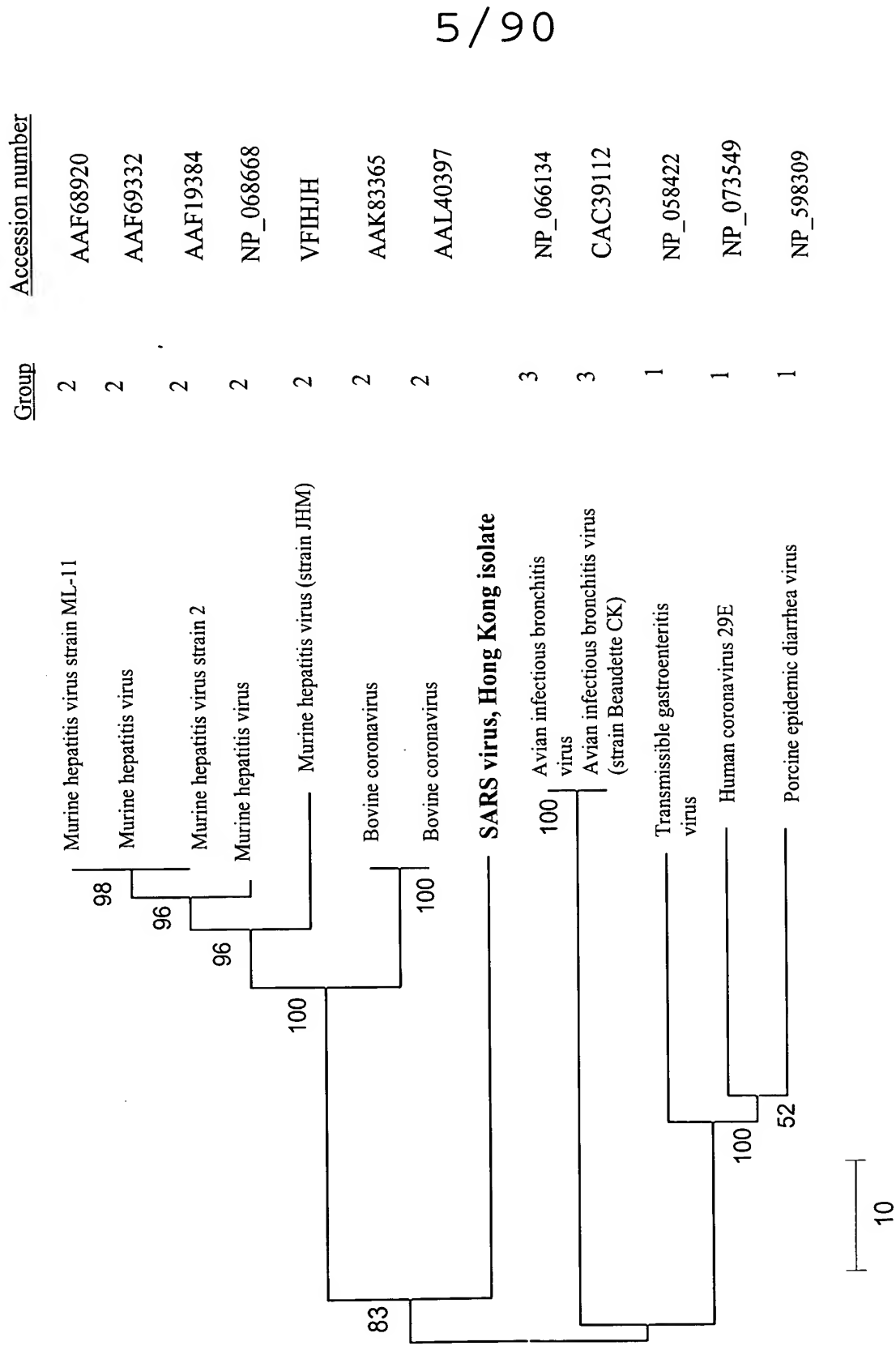


FIG. 6

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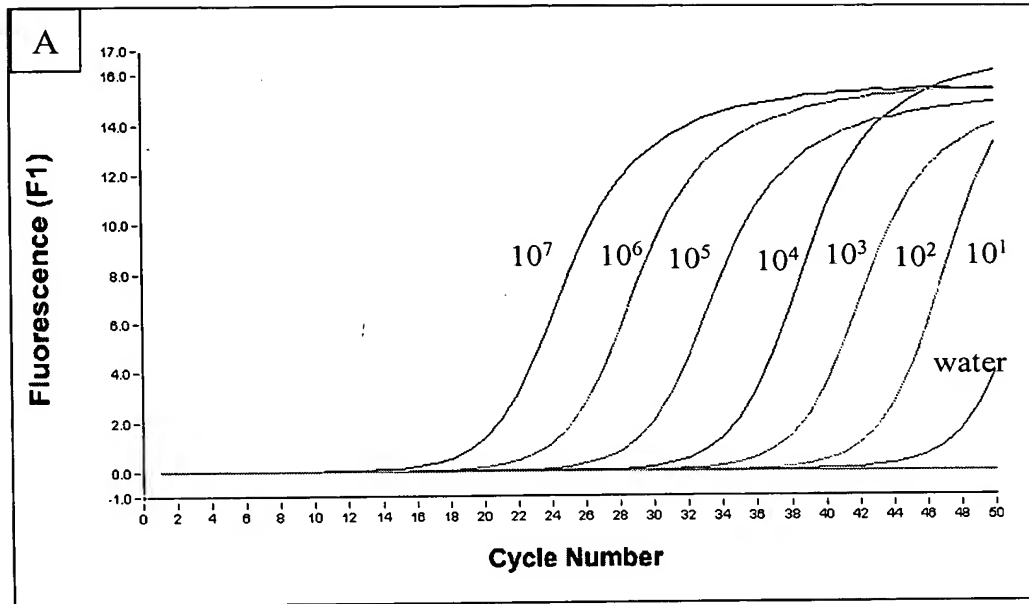


FIG. 7A

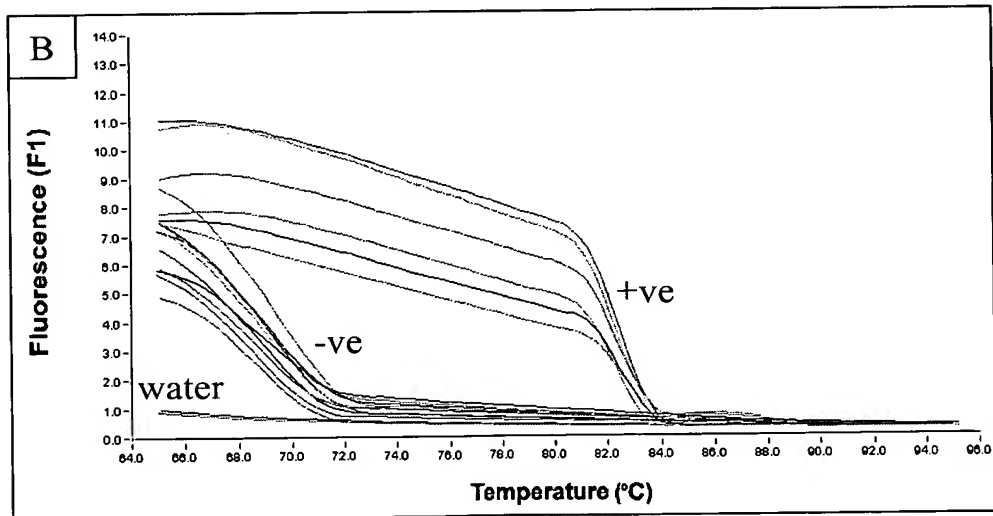


FIG. 7B

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t	aaa	tgt	agt	aga	atc	ata	cct	gcg	cgt	gcg	cgc	gta	gag	tgt	ttt	gat	49
	Lys	Cys	Ser	Arg	Ile	Ile	Pro	Ala	Arg	Ala	Arg	Val	Glu	Cys	Phe	Asp	
	1				5					10					15		
aaa	ttc	aaa	gtg	aat	tca	aca	cta	gaa	cag	tat	ggt	ttc	tgc	act	gta		97
Lys	Phe	Lys	Val	Asn	Ser	Thr	Leu	Glu	Gln	Tyr	Val	Phe	Cys	Thr	Val		
			20					25					30				
aat	gca	ttg	cca	gaa	aca	act	gct	gac	att	gta	gtc	ttt	gat	gaa	atc		145
Asn	Ala	Leu	Pro	Glu	Thr	Thr	Ala	Asp	Ile	Val	Val	Phe	Asp	Glu	Ile		
		35					40					45					
tct	atg	gct	act	aat	tat	gac	ttg	agt	ggt	gtc	aat	gct	aga	ctt	cgt		193
Ser	Met	Ala	Thr	Asn	Tyr	Asp	Leu	Ser	Val	Val	Asn	Ala	Arg	Leu	Arg		
	50					55					60						
gca	aaa	cac	tac	gtc	tat	att	ggc	gat	cct	gct	caa	tta	cca	gcc	ccc		241
Ala	Lys	His	Tyr	Val	Tyr	Ile	Gly	Asp	Pro	Ala	Gln	Leu	Pro	Ala	Pro		
65					70					75					80		
cgc	aca	ttg	ctg	act	aaa	ggc	aca	cta	gaa	cca	gaa	tat	ttt	aat	tca		289
Arg	Thr	Leu	Leu	Thr	Lys	Gly	Thr	Leu	Glu	Pro	Glu	Tyr	Phe	Asn	Ser		
				85					90					95			
gtg	tgc	aga	ctt	atg	aaa	aca	ata	ggg	cca	gac	atg	ttc	ctt	gga	act		337
Val	Cys	Arg	Leu	Met	Lys	Thr	Ile	Gly	Pro	Asp	Met	Phe	Leu	Gly	Thr		
			100					105					110				
tgt	cgc	cgt	tgt	cct	gct	gaa	att	ggt	gac	act	gtg	agt	gct	tta	ggt		385
Cys	Arg	Arg	Cys	Pro	Ala	Glu	Ile	Val	Asp	Thr	Val	Ser	Ala	Leu	Val		
		115				120						125					
tat	gac	aat	aag	cta	aaa	gca	cac	aag	gag	aag	tca	gct	caa	tgc	ttc		433
Tyr	Asp	Asn	Lys	Leu	Lys	Ala	His	Lys	Glu	Lys	Ser	Ala	Gln	Cys	Phe		
	130					135					140						
aaa	atg	ttc	tac	aaa	ggg	ggt	att	aca	cat	gat	ggt	tca	tct	gca	atc		481
Lys	Met	Phe	Tyr	Lys	Gly	Val	Ile	Thr	His	Asp	Val	Ser	Ser	Ala	Ile		
145					150					155					160		
aac	aga	cct	caa	ata	ggc	ggt	gta	aga	gaa	ttt	ctt	aca	cgc	aat	cct		529
Asn	Arg	Pro	Gln	Ile	Gly	Val	Val	Arg	Glu	Phe	Leu	Thr	Arg	Asn	Pro		
			165						170					175			
gct	tggt	aga	aaa	gct	ggt	ttt	atc	tca	cct	tat	aat	tca	cag	aac	gct		577
Ala	Trp	Arg	Lys	Ala	Val	Phe	Ile	Ser	Pro	Tyr	Asn	Ser	Gln	Asn	Ala		
			180					185					190				
gta	gct	tca	aaa	atc	tta	gga	ttg	cct	acg	cag	act	ggt	gat	tca	tca		625
Val	Ala	Ser	Lys	Ile	Leu	Gly	Leu	Pro	Thr	Gln	Thr	Val	Asp	Ser	Ser		
		195				200						205					
cag	ggg	tct	gaa	tat	gac	tat	gtc	ata	ttc	aca	caa	act	act	gaa	aca		673
Gln	Gly	Ser	Glu	Tyr	Asp	Tyr	Val	Ile	Phe	Thr	Gln	Thr	Thr	Glu	Thr		
	210					215					220						

FIG. 8

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gca cac tct tgt aat gtc aac cgc ttc aat gtg gct atc aca agg gca	721
Ala His Ser Cys Asn Val Asn Arg Phe Asn Val Ala Ile Thr Arg Ala	
225 230 235 240	
aaa att ggc att ttg tgc ata atg tct gat aga gat ctt tat gac aaa	769
Lys Ile Gly Ile Leu Cys Ile Met Ser Asp Arg Asp Leu Tyr Asp Lys	
245 250 255	
ctg caa ttt aca agt cta gaa ata cca cgt cgc aat gtg gct aca tta	817
Leu Gln Phe Thr Ser Leu Glu Ile Pro Arg Arg Asn Val Ala Thr Leu	
260 265 270	
caa gca gaa aat gta act gga ctt ttt aag gac tgt agt aag atc att	865
Gln Ala Glu Asn Val Thr Gly Leu Phe Lys Asp Cys Ser Lys Ile Ile	
275 280 285	
act ggt ctt cat cct aca cag gca cct aca cac ctc agc gtt gat ata	913
Thr Gly Leu His Pro Thr Gln Ala Pro Thr His Leu Ser Val Asp Ile	
290 295 300	
aaa ttc aag act gaa gga tta tgt gtt gac ata cca ggc ata cca aag	961
Lys Phe Lys Thr Glu Gly Leu Cys Val Asp Ile Pro Gly Ile Pro Lys	
305 310 315 320	
gac atg acc tac cgt aga ctc atc tct atg atg ggt ttc aaa atg aat	1009
Asp Met Thr Tyr Arg Arg Leu Ile Ser Met Met Gly Phe Lys Met Asn	
325 330 335	
tac caa gtc aat ggt tac cct aat atg ttt atc acc cgc gaa gaa gct	1057
Tyr Gln Val Asn Gly Tyr Pro Asn Met Phe Ile Thr Arg Glu Glu Ala	
340 345 350	
att cgt cac gtt cgt gcg tgg att ggc ttt gat gta gag ggc tgt cat	1105
Ile Arg His Val Arg Ala Trp Ile Gly Phe Asp Val Glu Gly Cys His	
355 360 365	
gca act aga gat gct gtg ggt act aac cta cct ctc cag cta gga ttt	1153
Ala Thr Arg Asp Ala Val Gly Thr Asn Leu Pro Leu Gln Leu Gly Phe	
370 375 380	
tct aca ggt gtt aac tta gta gct gta ccg act ggt tat gtt gac act	1201
Ser Thr Gly Val Asn Leu Val Ala Val Pro Thr Gly Tyr Val Asp Thr	
385 390 395 400	
gaa aat aac cta	1213
Glu Asn Asn Leu	

FIG. 8 Con't

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c	aga	acc	atg	cct	aac	atg	ctt	agg	ata	atg	gcc	tct	ctt	gtt	ctt	gct	49
	Arg	Thr	Met	Pro	Asn	Met	Leu	Arg	Ile	Met	Ala	Ser	Leu	Val	Leu	Ala	
1					5				10						15		
cgc	aaa	cat	aac	act	tgc	tgt	aac	tta	tca	cac	cgt	ttc	tac	agg	tta		97
Arg	Lys	His	Asn	Thr	Cys	Cys	Asn	Leu	Ser	His	Arg	Phe	Tyr	Arg	Leu		
			20					25					30				
gct	aac	gag	tgt	gcg	caa	gta	tta	agt	gag	atg	gtc	atg	tgt	ggc	ggc		145
Ala	Asn	Glu	Cys	Ala	Gln	Val	Leu	Ser	Glu	Met	Val	Met	Cys	Gly	Gly		
		35					40					45					
tca	cta	tat	gtt	aaa	cca	ggg	gga	aca	tca	tcc	ggg	gat	gct	aca	act		193
Ser	Leu	Tyr	Val	Lys	Pro	Gly	Gly	Thr	Ser	Ser	Gly	Asp	Ala	Thr	Thr		
	50					55					60						
gct	tat	gct	aat	agt	gtc	ttt	aac	att	tgt	caa	gct	gtt	aca	gcc	aat		241
Ala	Tyr	Ala	Asn	Ser	Val	Phe	Asn	Ile	Cys	Gln	Ala	Val	Thr	Ala	Asn		
65					70				75					80			
gta	aat	gca	ctt	ctt	tca	act	gat	ggg	aat	aag	ata	gct	gac	aag	tat		289
Val	Asn	Ala	Leu	Leu	Ser	Thr	Asp	Gly	Asn	Lys	Ile	Ala	Asp	Lys	Tyr		
			85						90					95			
gtc	cgc	aat	cta	caa	cac	agg	ctc	tat	gag	tgt	ctc	tat	aga	aat	agg		337
Val	Arg	Asn	Leu	Gln	His	Arg	Leu	Tyr	Glu	Cys	Leu	Tyr	Arg	Asn	Arg		
			100					105					110				
gat	gtt	gat	cat	gaa	ttc	gtg	gat	gag	ttt	tac	gct	tac	ctg	cgt	aaa		385
Asp	Val	Asp	His	Glu	Phe	Val	Asp	Glu	Phe	Tyr	Ala	Tyr	Leu	Arg	Lys		
		115					120					125					
cat	ttc	tcc	atg	atg	att	ctt	tct	gat	gat	gcc	gtt	gtg	tgc	tat	aac		433
His	Phe	Ser	Met	Met	Ile	Leu	Ser	Asp	Asp	Ala	Val	Val	Cys	Tyr	Asn		
	130					135					140						
agt	aac	tat	gcg	gct	caa	ggg	tta	gta	gct	agc	att	aag	aac	ttt	aag		481
Ser	Asn	Tyr	Ala	Ala	Gln	Gly	Leu	Val	Ala	Ser	Ile	Lys	Asn	Phe	Lys		
145					150				155						160		
gca	gtt	ctt	tat	tat	caa	aat	aat	gtg	ttc	atg	tct	gag	gca	aaa	tgt		529
Ala	Val	Leu	Tyr	Tyr	Gln	Asn	Asn	Val	Phe	Met	Ser	Glu	Ala	Lys	Cys		
				165				170				S		175			
tgg	act	gag	act	gac	ctt	act	aaa	gga	cct	cac	gaa	ttt	tgc	tca	cag		577
Trp	Thr	Glu	Thr	Asp	Leu	Thr	Lys	Gly	Pro	His	Glu	Phe	Cys	Ser	Gln		
			180					185					190				
cat	aca	atg	cta	gtt	aaa	caa	gga	gat	gat	tac	gtg	tac	ctg	cct	tac		625
His	Thr	Met	Leu	Val	Lys	Gln	Gly	Asp	Asp	Tyr	Val	Tyr	Leu	Pro	Tyr		
		195					200					205					
cca	gat	cca	tca	aga	ata	tta	ggc	gca	ggc	tgt	ttt	gtc	gat	gat	att		673
Pro	Asp	Pro	Ser	Arg	Ile	Leu	Gly	Ala	Gly	Cys	Phe	Val	Asp	Asp	Ile		
		210				215					220						
gtc	aaa	cag	atg	gta	cac	tta	tga	ttg	aaa	ggg	tcc	gtg	tca	ctg	gct		721
Val	Lys	Gln	Met	Val	His	Leu											
225					230												
att	gat	gc															729

FIG. 9

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1  atattaggtt tttacctacc caggaaaagc caaccaacct cgatctcttg tagatctgtt
61  ctctaaacga actttaaaat ctgtgtagct gtcgctcggc tgcattgccta gtgcacctac
121 gcaagtataaa caataataaaa ttttactgtc gttgacaaga aacgagtaac tgcgccctct
181 tctgcagact gcttacgggt tcgtccgtgt tgcagtcgat catcagcata cctaggtttc
241 gtccgggtgt gaccgaaagg taagatggag agccttggtc ttggtgtcaa cgagaaaaca
301 caggtccaac tcagtttgcc tgtccttcag gttagagacg tgctagtgcg tggcttcggg
361 gactctgtgg aagaggccct atcggaggca cgtgaacacc tcaaaaatgg cacttggtgg
421 ctagtagagc tggaaaaagg cgtactgccc cagcttgaac agccctatgt gttcattaaa
481 cgttctgatg ccttaagcac caatcacggc cacaaggtcg ttgagctggt tgcagaaatg
541 gacggcattc agtacggtcg tagcgggtata acactgggag tactcgtgcc acatgtgggc
601 gaaaccccaa ttgcataccg caatgttctt ctctgtaaga acggtataaa gggagccggg
661 ggtcatagct atggcatcga tctaaagtct tatgacttag gtgacgagct tggcactgat
721 ccattgaag attatgaaca aaactggaac actaagcatg gcagtggtgc actccgtgaa
781 ctactcgtg agctcaatgg aggtgcagtc actcgtctatg tcgacaacaa tttctgtggc
841 ccagatgggt accctcttga ttgcatcaaa gattttctcg cacgcgcggg caagtcaatg
901 tgcactcttt ccgaacaact tgattacatc gagtgaaga gaggtgtcta ctgctgccgt
961 gaccatgagc atgaaattgc ctggttcact gagcgtctctg ataagagcta cgagcaccag
1021 acacccttcg aaattaagag tgccaagaaa tttgacactt tcaaagggga atgccaaaag
1081 tttgtgtttc ctcttaactc aaaagtcaaa gtcattcaac cacgtgttga aaagaaaaag
1141 actgagggtt tcatggggcg tatacgtctt gtgtaccctg ttgcatctcc acaggagtgt
1201 aacaatatgc acttgctctac cttgatgaaa tgtaatcatt gcgatgaagt ttcattggcag
1261 acgtgcgagc ttctgaaagc cacttggtgaa cattgtggca ctgaaaattt agttattgaa
1321 ggacctacta catgtgggta cctacctact aatgctgtag tgaaaatgcc atgtcctgcc
1381 tgtcaagacc cagagattgg acctgagcat agtgttgtag attatcacia cactcaaac
1441 attgaaactc gactccgcaa gggaggtagg actagatgtt ttggaggctg tgtgtttgcc
1501 tatgttggct gctataataa gcgtgcctac tgggttcctc gtgctagtgc tgatattggc
1561 tcaggccata ctggcattac tggtgacaat gtggagacct tgaatgagga tctccttgag
1621 aactgagtc gtgaacgtgt taacattaac attgttggcg attttcattt gaatgaagag
1681 gttgccatca ttttggcatc tttctctgct tctacaagtg cttttattga cactataaag
1741 agtcttgatt acaagtcttt caaaaccatt gttgagtcct gcggttaact taaagttacc
1801 aagggaaggc ccgtaaaagg tgcttggaaac attggacaac agagatcagt ttaacacca
1861 ctgtgtgggt ttccctcaca ggctgtgggt gttatcagat caatttttgc gcgcacctt
1921 gatgcagcaa accactcaat tcctgatattg caaagagcag ctgtcaccat acttgatggg
1981 atttctgaac agtcattacg tcttgctgac gccatgggtt atacttcaga cctgctcacc
2041 aacagtgtca ttattatggc atatgtaact ggtggtcttg tacaacagac ttctcagtgg
2101 ttgtctaate ttttgggcac tactgttgaa aaactcaggc ctatctttga atggattgag
2161 gcgaaactta gtgcaggagt tgaatttctc aaggatgctt gggagattct caaatttctc
2221 attacagggtg tttttgacat cgtcaagggt caaatacagg ttgcttcaga taacatcaag
2281 gattgtgtaa aatgcttcat tgatgttgtt aacaaggcac tcgaaatgtg cttgatgcaa
2341 gtcactatcg ctggcgcaaa gttgcgatca ctcaacttag gtgaagtctt catcgctcaa
2401 agcaagggac tttaccgtca tgtgtatacgt ggcaaggagc agctgcaact actcatgcct
2461 cttaggcac caaaagaagt aacctttctt gaaggtgatt cacatgacac agtacttacc
2521 tctgaggagg ttgttctcaa gaacggtgaa ctcgaagcac tcgagacgcc cgttgatagc
2581 ttcacaaatg gagctatcgt cggcacacca gtctgtgtaa atggcctcat gctcttagag
2641 attaggaca aagaacaata ctgcgcattg tctcctgggt tactggctac aaacaatgtc
2701 tttcgcttaa aaggggggtgc accaattaaa ggtgtaacct ttggagaaga tactgtttgg
2761 gaagttcaag gttacaagaa tgtgagaatc acatttgagc ttgatgaacg tgttgacaaa
2821 gtgcttaatg aaaagtgtct tgtctacact gttgaatccg gtaccgaagt gttaggttt
2881 gcatgtgttg tagcagaggc tgtgtgaaag actttacaac cagtttctga tctccttacc
2941 aacatgggta ttgatcttga tgagtggagt gtagctacat tctacttatt tgatgatgct
3001 ggtgaagaaa acttttcatc acgtatgtat tgttcttttt accctccaga tgaggaagaa
3061 gaggacgatg cagagtgtga ggaagaagaa attgatgaaa cctgtgaaca tgagtacggg
3121 acagaggatg attatcaagg tctccctctg gaatttggtg cctcagctga aacagttcga
3181 gttgaggaag aagaagagga agactggctg gatgatacta ctgagcaatc agagattgag
3241 ccagaaccag aacctacacc tgaagaacca gttaatcagt ttactgggta tttaaaactt
3301 actgacaatg ttgccattaa atgtgttgac atcgtaaggg aggcacaaag tgctaatacct

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FIG. 10

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3361 atggtgattg taaatgctgc taacatacac ctgaaacatg gtggtggtgt agcaggtgca
3421 ctcaacaagg caaccaatgg tgccatgcaa aaggagagtg atgattacat taagctaaat
3481 ggccctctta cagtaggagg gtcttgtttg ctttctggac ataatcttgc taagaagtgt
3541 ctgcatgttg ttggacctaa cctaaatgca ggtgaggaca tccagcttct taaggcagca
3601 tatgaaaatt tcaattcaca ggacatctta cttgcaccat tgttgtcagc aggcataattt
3661 ggtgctaaac cacttcagtc tttacaagtg tgcgtgcaga cggttcgtac acaggtttat
3721 attgcagtca atgacaaagc tctttatgag caggttgtca tggattatct tgataacctg
3781 aagcctagag tggaagcacc taaacaagag gagccaccaa acacagaaga ttccaaaact
3841 gaggagaaat ctgtcgtaca gaagcctgtc gatgtgaagc caaaaattaa ggccctgcatt
3901 gatgaggtta ccacaacact ggaagaaact aagtttctta ccaataagtt actcttgttt
3961 gctgatataca atggtaagct ttaccatgat tctcagaaca tgcttagagg tgaagatatg
4021 tctttccttg agaaggatgc accttacatg gtaggtgatg ttatcactag tggatgatct
4081 acttgtgttg taataccctc caaaaaggct ggtggcacta ctgagatgct ctcaagagct
4141 ttgaagaaag tgccagttga tgagtatata accacgtacc ctggacaagg atgtgctggg
4201 tatacacttg aggaagctaa gactgctctt aagaaatgca aatctgcatt ttatgtacta
4261 ccttcagaag cacctaatgc taaggaagag attctaggaa ctgtatcctg gaatttgaga
4321 gaaatgcttg ctcatgctga agagacaaga aaattaatgc ctatatgcat ggatgttaga
4381 gccataatgg caaccatcca acgtaagtat aaaggaatta aaattcaaga gggcatcggt
4441 gactatgggtg tccgattctt cttttatact agtaaagagc ctgtagcttc tattattacg
4501 aagctgaact ctctaaatga gccgcttgct acaatgcaa ttggttatgt gacacatggt
4561 tttaatcttg aagaggctgc gcgctgtatg cgttctctta aagctcctgc cgtatgtca
4621 gtatcatcac cagatgctgt tactacatat aatggatacc tcacttcgtc atcaaagaca
4681 tctgaggagc actttgtaga aacagtttct ttggctggct cttacagaga ttggtcctat
4741 tcaggacagc gtacagagtt aggtgttgaa tttcttaagc gtggtgacaa aattgtgtac
4801 cacactctgg agagccccgt cgagtttcat cttgacgggt aggttcttct acttgacaaa
4861 ctaaagagtc tcttatccct gcgggagggt aagactataa aagtgttcac aactgtggac
4921 aacactaatc tccacacaca gcttgtggat atgtctatga catatggaca gcagtttggg
4981 ccaacatact tggatgggtg tgatgttaca aaaattaaac ctcatgtaaa tcatgagggt
5041 aagactttct ttgtactacc tagtgatgac acactacgta gtgaagcttt cgagtactac
5101 catactcttg atgagagttt tcttggtagg tacatgtctg ctttaaacca cacaagaaa
5161 tggaaatttc ctcaagttgg tggtttaact tcaattaaat gggctgataa caattgttat
5221 ttgtctagtg ttttattagc acttcaacag cttgaagtca aattcaatgc accagcactt
5281 caagaggctt attatagagc ccgtgctggg gatgctgcta acttttgtgc actcactctc
5341 gcttacagta ataaaactgt tggcgagctt ggtgatgtca gagaaactat gacccatctt
5401 ctacagcatg ctaatttgga atctgcaaag cgagttctta atgtggtgtg taaacattgt
5461 ggtcagaaaa ctactacctt aacgggtgta gaagctgtga tgtatatggg tactctatct
5521 tatgataatc ttaagacagg tgtttccatt ccatgtgtgt gtggtcgtga tgctacacaa
5581 tatctagtac aacaagagtc ttcttttgtt atgatgtctg caccacctgc tgagtataaa
5641 ttacagcaag gtacattctt atgtgcgaat gagtacactg gtaactatca gttggtcat
5701 tacactcata taactgctaa ggagacctc tatcgtattg acggagctca ccttacaag
5761 atgtcagagt acaaaggacc agtgactgat gttttctaca aggaaacatc ttactacta
5821 accatcaagc ctgtgtcgta taaactcgat ggagttactt acacagagat tgaacaaaa
5881 ttggatgggt attataaaaa ggataatgct tactatacag agcagcctat agaccttgta
5941 ccaactcaac cattaccaaa tgcgagtttt gataatttca aactcacatg ttctaacaca
6001 aaatttgctg atgattttaa tcaaatagaca ggcttcacaa agccagcttc acgagagcta
6061 tctgtcacat tcttcccaga cttgaatggc gatgtagtgg ctattgacta tagacactat
6121 tcagcgagtt tcaagaaagg tgctaaatta ctgcataagc caattgtttg gcacattaac
6181 caggctacaa ccaagacaac gttcaaacca aacacttggg gtttacgttg tctttggagt
6241 acaaagccag tagatacttc aaattcattt gaagttctgg cagtagaaga cacacaagga
6301 atggacaatc ttgcttgtga aagtcaacaa cccacctctg aagaagtagt ggaaaaatcct
6361 accatacaga aggaagtcac agagtgtgac gtgaaaacta ccgaagtgtg aggcaatgtc
6421 atacttaaac catcagatga aggtgttaaa gtaacacaag agttagggtca tgaggatctt
6481 atggctgctt atgtggaaaa cacaagcatt accattaaga aacctaatag gctttcacta
6541 gccttagggt taaaaacaat tgccactcat ggtattgctg caattaatag tgttccttgg
6601 agtaaaatth ttgcttatgt caaaccattc ttaggacaag cagcaattac aacatcaaat
6661 tgcgctaaga gattagcaca acgtgtgttt aacaattata tgccttatgt gtttacatta

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FIG. 10 Con't

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6721 ttgttccaat tgtgtacttt tactaaaagt accaattcta gaattagagc ttcactacct
6781 acaactattg ctaaaaaatag tgtaaagagt gttgctaaat tatgtttgga tgccggcatt
6841 aattatgtga agtcacccaa attttctaaa ttgttcacaa tcgctatgtg gctattgttg
6901 ttaagtattt gcttaggttc tctaactctgt gtaactgctg cttttggtgt actcttatct
6961 aattttggtg ctcttcttta ttgtaatggc gttagagaat tgtatcttaa ttcgtctaac
7021 gttactacta tggatttctg tgaaggttct tttccttgca gcatttgttt aagtggatta
7081 gactcccttg attcttatcc agctcttgaa accattcagg tgacgatttc atcgtacaag
7141 ctagacttga caattttagg tctggccgct gagtgggttt tggcatatat gttgttcaca
7201 aaattctttt atttattagg tctttcagct ataatgcagg tgttctttgg ctattttgct
7261 agtcatttca tcagcaattc ttggctcatg tggtttatca ttagtattgt acaaatggca
7321 cccgtttctg caatggttag gatgtacatc ttctttgctt ctttctacta catatggaag
7381 agctatgttc atatcatgga tggttgcacc tcttcgactt gcatgatgtg ctataagcgc
7441 aatcgtgcca cagcgttga gtgtacaact attgttaatg gcatgaagag atctttctat
7501 gtctatgcaa atggaggccg tggcttctgc aagactcaca attggaattg tctcaattgt
7561 gacacatttt gcaactggtg tacattcatt agtgatgaag ttgctcgtga tttgtcactc
7621 cagtttaaaa gaccaatcaa ccctactgac cagtcacgt atattgttga tagtgttgct
7681 gtgaaaaatg gcgcgcttca cctctacttt gacaaggctg gtcaaaagac ctatgagaga
7741 catccgctct cccattttgt caatttagac aatttgagag ctaacaacac taaaggttca
7801 ctgcctatta atgtcatagt ttttgatggc aagtccaaat gcgacgagtc tgcttctaag
7861 tctgcttctg tgtactacag tcagctgatg tgccaaccta ttctgttget tgaccaagct
7921 cttgtatcaa acgttggaag tagtactgaa gtttccgtta agatgtttga tgcttatgtc
7981 gacacctttt cagcaacttt tagtgttcc tgggaaaaac ttaaggcact tgttgctaca
8041 gctcacagcg agttagcaaa ggggtgtagc ttagatgggtg tcctttctac attcgtgtca
8101 gctgcccgcg aaggtgttgt tgataccgat gttgacacaa aggatgttat tgaatgtctc
8161 aaactttcac atcactctga cttagaagtg acagggtgaca gttgtaacaa tttcatgctc
8221 acctataata aggttgaaaa catgacgccc agagatcttg gcgcatgtat tgactgtaat
8281 gcaaggcata tcaatgccc ahtagcaaaa agtcacaatg tttcactcat ctggaatgta
8341 aaagactaca tgtctttatc tgaacagctg cgtaaacaaa ttcgtactgc tgccaagaag
8401 aacaacatac cttttacact aacttgtgct acaactagac aggttgtcaa tgtcataact
8461 actaaaatct cactcaaggg tggttaagatt gttagtactt gttttaaact tagtcttaag
8521 gccacattat tgtgcgttct tgctgcattg gtttgttata tcgttatgcc agtacataca
8581 ttgtcaatcc atgatggta cacaatgaa atcattgggt acaaagccat tcaggatggg
8641 gtcactcgtg acatcatttc tactgatgat tgttttgcaa ataaacatgc tggttttgac
8701 gcatggttta gccagcgtgg tggttcatac aaaaatgaca aaagctgcc tgtagtagct
8761 gctatcatta caagagagat tggtttcata gtgcctggct taccgggtac tgtgctgaga
8821 gcaatcaatg gtgacttctt gcattttcta cctcgtgttt ttagtgctgt tggaacatt
8881 tgctacacac cttccaaact cattgagtat agtgattttg ctacctctgc ttgcgttctt
8941 gctgctgagt gtacaatttt taaggatgct atgggcaaac ctgtgccata ttgttatgac
9001 actaatttgc tagaggggtc tatttcttat agtgagcttc gtccagacac tcgttatgtg
9061 cttatggatg gttccatcat acagtttctt aacacttacc tggagggttc tgttagagta
9121 gtaacaactt ttgatgctga gtactgtaga catggtacat gcgaaaggct agaagtaggt
9181 atttgcctat ctaccagtgg tagatgggtt cttaataatg agcattacag agctctatca
9241 ggagttttct gtggtgttga tgcgatgaat ctcatagcta acatctttac tcctcttggtg
9301 caacctgtgg gtgctttaga tgtgtctgct tcagtagtgg ctgggtggtat tattgccata
9361 ttggtgactt gtgctgccta ctactttatg aaattcagac gtgtttttgg tgagtacaac
9421 catgttggtg ctgctaattgc acttttgttt ttgatgtctt tcactatact ctgtctggta
9481 ccagcttaca gctttctgcc gggagtctac tcagtctttt acttgtactt gacattctat
9541 ttcaccaatg atgtttcatt cttggctcac cttcaatggt ttgccatggt ttctcttatt
9601 gtgccttttt ggataacagc aatctatgta ttctgtattt ctctgaagca ctgcattgg
9661 ttctttaaca actatcttag gaaaagagtc atgtttaatg gagttacatt tagtaccttc
9721 gaggaggctg ctttgtgtac ctttttgtct aacaaggaaa tgtacctaaa attgcgtagc
9781 gagacactgt tgccacttac acagtataac aggtatcttg ctctatataa caagtacaag
9841 tatttcagtg gagccttaga tactaccagc tatcgtgaag cagcttgctg ccacttagca
9901 aaggctctaa atgacttttag caactcaggt gctgatgttc tctaccaacc accacagaca
9961 tcaatcactt ctgctgttct gcagagtggg tttaggaaaa tggcattccc gtcaggcaaa
10021 gttgaagggg gcatggtaca agtaacctgt ggaactacaa ctcttaatgg attgtgggtg

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FIG. 10 Con't

10081	gatgacacag	tatactgtcc	aagacatgtc	at ttgcacag	cagaagacat	gcttaatcct
10141	aactatgaag	atctgctcat	tcgcaaatcc	aaccatagct	ttcttggtca	ggctggcaat
10201	gttcaacttc	gtgttattgg	ccattctatg	caaaattgtc	tgcttaggct	taaagttgat
10261	acttctaacc	ctaagacacc	caagtataaa	tttgtccgta	tccaacctgg	tcaaacattt
10321	tcagttctag	catgctacaa	tggttcacca	tctgggtgtt	atcagtgtgc	catgagacct
10381	aatcatacca	ttaaagggtc	tttccttaat	ggatcatgtg	gtagtgttgg	ttttaacatt
10441	gattatgatt	gcgtgtcttt	ctgctatatg	catcatatgg	agcttccaac	aggagtacac
10501	gctgggtactg	acttagaagg	taaattctat	gggtccattt	ttgacagaca	aactgcacag
10561	gctgcaggta	cagacacaac	cataacatta	aatgttttgg	catggctgta	tgctgctggt
10621	atcaatgggtg	ataggtgggt	tcttaataga	ttcaccacta	ctttgaatga	ctttaacctt
10681	gtggcaatga	agtacaacta	tgaacctttg	acacaagatc	atgttgacat	atggggacct
10741	ctttctgctc	aaacaggaat	tgccgtctta	gatatgtgtg	ctgctttgaa	agagctgctg
10801	cagaatggta	tgaatggtcg	tactatcctt	ggtagcacta	ttttagaaga	tgagtttaca
10861	ccattttgatg	ttgttagaca	atgctctggg	gttaccttcc	aaggtaagtt	caagaaaatt
10921	gttaaggggca	ctcatcattg	gatgctttta	actttcttga	catcactatt	gattcttggt
10981	caaagtacac	agtggctact	gtttttcttt	gtttacgaga	atgctttctt	gccatttact
11041	cttgggtatta	tggaatttgc	tgcatgtgct	atgctgcttg	ttaagcataa	gcacgcattc
11101	ttgtgcttgt	ttctgttacc	ttctcttgca	acagttgctt	actttaatat	ggcttacatg
11161	cctgctagct	gggtgatgcg	tatcatgaca	tggttgaat	tggtgacac	tagcttgctt
11221	ggttataggc	ttaaggattg	tgttatgtat	gcttcagctt	tagttttgct	tattctcatg
11281	acagctcgca	ctgtttatga	tgatgctgct	agacgtgttt	ggacactgat	gaatgtcatt
11341	acacttggtt	acaaagtcta	ctatggtaat	gcttttagatc	aagctatttc	catgtgggct
11401	ttagtttattt	ctgtaacctc	taactattct	gggtgctgta	cgactatcat	gttttttagct
11461	agagctatag	tgtttgtgtg	tgttgagtat	taccatttgt	tatttattac	tggcaacacc
11521	ttacagtgtg	tcattgcttg	ttattgtttc	ttaggctatt	gttgctgctg	ctactttggc
11581	cttttctggt	tactcaaccg	ttacttcagg	cttactcttg	gtgtttatga	ctacttggtc
11641	tctacacaag	aatttaggta	tatgaactcc	caggggcttt	tgcttccata	gagtagtatt
11701	gatgctttca	agcttaacat	taagttgttg	ggatttggag	gtaaaccatg	tatcaagggt
11761	gctactgtac	agtctaaaa	gtctgacgta	aagtgcacat	ctgtgggtact	gctctcggtt
11821	cttcaacaac	ttagagtaga	gtcatcttct	aaattgtggg	cacaattgtg	acaactccac
11881	aatgatattc	ttcttgcaaa	agacacaact	gaagctttcg	agaagatggg	ttctcttttg
11941	tctgttttgc	tatccatgca	gggtgctgta	gacattaata	ggttgtgcga	ggaaatgctc
12001	gataaccgtg	ctactcttca	ggctattgct	tcagaattta	gttctttacc	atcatatgcc
12061	gcttatgcca	ctgcccagga	ggcctatgag	caggctgtag	ctaattggta	ttctgaagtc
12121	gttctcaaaa	agttaaagaa	atctttgaat	gtggctaaat	ctgagtttga	ccgtgatgct
12181	gccatgcaac	gcaagttgga	aaagatggca	gatcaggcta	tgacccaaat	gtacaaacag
12241	gcaagatctg	aggacaagag	ggcaaaaagta	actagtgcta	tgcaaaacaat	gctcttcaat
12301	atgcttagga	agcttgataa	tgatgcactt	aacaacatta	tcaacaatgc	gcgtgatggg
12361	tgtgttccac	tcaacatcat	accattgact	acagcagcca	aactcatggg	tgttgcctct
12421	gattatggta	cctacaagaa	cacttgtgat	ggtaaacacct	ttacatatgc	atctgcactc
12481	tgggaaatcc	agcaagttgt	tgatgctggg	agcaagattg	ttcaacttag	tgaatttaac
12541	atggacaatt	caccaaattt	ggcttggcct	cttattgtta	cagctctaag	agccaaactca
12601	gctgttaaag	tacagaataa	tgaactgagt	ccagtagcac	tacgacagat	gtcctgtgct
12661	gctggtacca	cacaaacagc	ttgtactgat	gacaatgcac	ttgcctacta	taacaattcg
12721	aagggaggta	ggtttgtgct	ggcattacta	tcagaccacc	aagatctcaa	atgggctaga
12781	ttccctaaga	gtgatggtag	aggtacaatt	tacacagaac	tggaaaccac	ttgtagggtt
12841	gttacagaca	cacaaaaagg	gcctaaagtg	aaatacttgt	acttcatcaa	aggcttaaac
12901	aacctaaata	gaggtatggg	gctgggcagt	ttagctgcta	cagtacgtct	tcaggctgga
12961	aatgtctacag	aagtacctgc	caattcaact	gtgctttcct	tctgtgcttt	tgcagtagac
13021	cctgctaagg	catataagga	ttacctagca	agtggaggac	aaccaatcac	caactgtgtg
13081	aagatgttgt	gtacacacac	tggtacagga	caggcaatta	ctgtaacacc	agaagctaac
13141	atggaccaag	agtccttttg	tggtgcttca	tggtgtctgt	attgtagatg	ccacattgac
13201	catccaaatc	ctaaaggatt	ctgtgacttg	aaaggtaagt	acgtccaaat	acctaccact
13261	tgtgctaattg	accagtgagg	ttttacactt	agaaacacag	tctgtaccgt	ctgcgggaatg
13321	tggaaagggt	atggctgtag	ttgtgaccaa	ctccgcgaac	ccttgatgca	gtctgctggg
13381	gcatacaact	ttttaaacgg	gtttgctggtg	taagtgcagc	ccgtcttaca	ccgtgctggg

FIG. 10 Con't

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13441 caggcactag tactgatgtc gtctacaggg cttttgatat ttacaacgaa aaaagtgtcg
13501 gttttgcaaa gttcctaata actaattgct gtcgcttcca ggagaaggat gaggaaggca
13561 atttattaga ctcttacttt gtagttaaga ggcatactat gtctaactac caacatgaag
13621 agactattta taacttggtt aaagattgtc cagcggttgc tgtccatgac tttttcaagt
13681 ttagagtaga tgggtgacatg gtaccacata tatcacgtca gcgtctaact aaatacacia
13741 tggctgattt agtctatgct ctacgtcatt ttgatgaggg taattgtgat acattaaaag
13801 aaatactcgt cacatacaat tgctgtgatg atgattattt caataagaag gattgggtatg
13861 acttcgtaga gaatcctgac atcttacgcg tatatgctaa cttaggtagg cgtgtacgcc
13921 aatcattatt aaagactgta caattctgcg atgctatgcg tgatgcaggc attgtaggcg
13981 tactgacatt agataatcag gatcttaatg ggaactggta cgatttcggt gatttcgtac
14041 aagtagcacc aggctgcgga gttcctattg tggattcata ttactcattg ctgatgccca
14101 tcctcacttt gactagggca ttggctgctg agtcccatat ggatgctgat ctgcgaaaac
14161 cacttattta gtgggatttg ctgaaatagc attttacgga agagagactt tgtctcttcg
14221 accgttattt taaatattgg gaccagacat accatcccaa ttgtattaac tgtttggatg
14281 atagggtgat ctttcattgt gcaaacttta atgtgttatt ttctactgtg tttccacctt
14341 caagttttgg accactagta agaaaaatat ttgtagatgg tgttcctttt gttgtttcaa
14401 ctggatacca ttttcgtgag ttaggagtcg tacataatca ggatgtaaac ttacatagct
14461 cgcgtctcag tttcaaggaa ctttttagtgt atgctgctga tccagctatg catgcagctt
14521 ctggcaattt attgctagat aaacgcacta catgcttttc agtagctgca ctaacaaaca
14581 atgttgcttt tcaaactgtc aaaccgggta attttaataa agacttttat gactttgtcg
14641 tgtctaaagg tttctttaag gaaggaagtt ctgttgaaact aaaacacttc tctttgtctc
14701 aggatggcaa cgctgctatc agtgattatg actattatcg ttataatctg ccaacaatgt
14761 gtgatatcag acaactccta ttcgtagtgt aagttgttga taaatacttt gattgttacg
14821 atgggtggctg tattaatgcc aaccaagtaa tcgttaacaa tctggataaa tcagctgggtt
14881 tcccatttaa taaatggggt aaggctagac tttattatga ctcaatgagt tatgaggatc
14941 aagatgcact tttcgcgtat actaagcgta atgtcatccc tactataact caaatgaatc
15001 ttaagtatgc cattagtgc aagaatagag ctgcgaccgt agctgggtgc tctatctgta
15061 gtactatgac aaatagacag tttcatcaga aattattgaa gtcaatagcc gccactagag
15121 gagctactgt ggtaattgga acaagcaagt tttacgggtg ctggcataat atgttaaaaa
15181 ctgtttacag tgatgtagaa actccacacc ttatgggttg ggattatcca aaatgtgaca
15241 gagccatgcc taacatgctt aggataatgg cctctcttgt tcttgctcgc aaacataaca
15301 cttgctgtaa cttatcacac cgtttctaca ggtagctaa cgagtgtgcg caagtattaa
15361 gtgagatggc catgtgtggc ggctcactat atgttaaacc aggtggaaca tcatccggtg
15421 atgctacaac tgcttatgct aatagtgtct ttaacatttg tcaagctgtt acagccaatg
15481 taaatgcact tctttcaact gatggtaata agatagctga caagtatgtc cgcaatctac
15541 aacacaggct ctatgagtgt ctctatagaa atagggatgt tgatcatgaa ttcgtggatg
15601 agttttacgc ttacctgcgt aaacatttct ccatgatgat tctttctgat gatgccgttg
15661 tgtgctataa cagtaactat gcggtcaag gtttagtagc tagcattaag aactttaagg
15721 cagttcttta ttatcaaaat aatgtgttca tgcctgaggg aaaatgttgg actgagactg
15781 accttactaa aggacctcac gaattttgct cacagcatac aatgctagtt aaacaaggag
15841 atgattacgt gtacctgcct taccagatc catcaagaat attaggcgca ggctgttttg
15901 tcgatgatat tgtcaaaaaca gatggtacac ttatgattga aaggttcgtg tcaactggcta
15961 ttgatgctta cccacttaca aaacatccta atcaggagta tgctgatgtc tttcacttgt
16021 atttacaata cattagaaag ttacatgatg agcttactgg ccacatgttg gacatgtatt
16081 ccgtaatgct aactaatgat aacacctcac ggtactggga acctgagttt tatgaggcta
16141 tgtacacacc acatacagtc ttgcaggctg taggtgcttg tgtattgtgc aattcacaga
16201 cttcacttcg ttgcgggtgcc tgtattagga gaccattcct atgttgcaag tgctgctatg
16261 accatgtcat ttcaacatca cacaaattag tgttgctctg taatccctat gtttgcaatg
16321 cccaggttg tgatgtcact gatgtgacac aatgttatct aggaggtatg agctattatt
16381 gcaagtcaca taagcctccc attgttttc cattatgtgc taatggtcag gtttttggtt
16441 tatacaaaaa cacatgtgta ggtagtgaca atgtcactga cttcaatgcg atagcaacat
16501 gtgattggac taatgctggc gattacatac ttgccaacac ttgtactgag agactcaagc
16561 ttttcgcagc agaaacgctc aaagccactg aggaacatt taagctgtca tatggatttg
16621 ccaactgtacg cgaagtactc tctgacagag aattgcatct tcatggggag gttggaaaac
16681 ctagaccacc attgaacaga aactatgtct ttactgggta ccgtgtaact aaaaatagta
16741 aagtagagat tggagagtac acctttgaaa aaggtgacta tggtagtgc gttgtgtaca

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FIG. 10 Con't

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16801 gaggtactac gacatacaag ttgaatgttg gtgattactt tgtgttgaca tctcacactg
16861 taatgccact tagtgcacct actctagtgc cacaagagca ctatgtgaga attactggct
16921 tgtacccaac actcaacatc tcagatgagt tttctagcaa tgttgcaaat tatcaaaagg
16981 tcggcatgca aaagtactct acactccaag gaccacctgg tactggtaag agtcattttg
17041 ccatcggact tgctctctat taccatctg ctgcgatagt gtatacggca tgctctcatg
17101 cagctgttga tgccctatgt gaaaaggcat taaaatattt gcccatagat aaatgtagta
17161 gaatcatacc tgcgcgtgcg cgcgtagagt gttttgataa attcaaagtg aattcaacac
17221 tagaacagta tgttttctgc actgtaaatg cattgccaga aacaactgct gacattgtag
17281 tctttgatga aatctctatg gctactaatt atgacttgag tgttgtcaat gctagacttc
17341 gtgcaaaaca ctacgtctat attggcgatc ctgctcaatt accagcccc cgcacattgc
17401 tgactaaagg cacactagaa ccagaatatt ttaattcagt gtgcagactt atgaaaacaa
17461 taggtccaga catgttcctt ggaacttgtc gccgttgtcc tgctgaaatt gttgacactg
17521 tgagtgcctt agtttatgac aataagctaa aagcacacaa ggataagtca gctcaatgct
17581 tcaaatgtt ctacaaagggt gttattacac atgatgtttc atctgcaatc aacagacctc
17641 aaataggcgt tgtaagagaa tttcttacac gcaatcctgc ttggagaaaa gctgttttta
17701 tctcacctta taattcacag aacgctgtag cttcaaaaat cttaggattg cctacgcaga
17761 ctggtgatcc atcacagggt tctgaatatg actatgtcat attcacacaa actactgaaa
17821 cagcacactc ttgtaatgtc aaccgcttca atgtggctat cacaagggca aaaattggca
17881 ttttgtgcat aatgtctgat agagatcttt atgacaaact gcaatttaca agctagaaa
17941 taccacgtcg caatgtggct acattacaag cagaaaaatgt aactggactt ttaaggact
18001 gtagtaagat cattactggc cttcatccta cacaggcacc tacacacctc agcgttgata
18061 taaaattcaa gactgaagga ttatgtgttg acataccagg cataccaaag gacatgacct
18121 accgtagact catctctatg atgggtttca aaatgaatta ccaagtcaat ggttacccta
18181 atatgtttat caccgcgcaa gaagctattc gtcacgttcg tgcgtggatt ggctttgatg
18241 tagagggtcg tcatgcaact agagatgctg tgggtactaa cctacctctc cagctaggat
18301 tttctacagg tgtaactta gtactgttac cgactgggta tgttgacact gaaaataaca
18361 cagaattcac cagagttaat gcaaaacctc caccagggtga ccagtttaaa catcttatac
18421 cactcatgta taaaggcttg ccctggaatg tagtgcgtat taagatagta caaatgctca
18481 gtgatacact gaaaggattg tcagacagag tctgttctgt cctttgggcg catggctttg
18541 agcttacatc aatgaagtac tttgtcaaga ttggacctga aagaacgtgt tgtctgtgtg
18601 acaaacgtgc aacttgcttt tctacttcat cagatactta tgccctgtgg aatcattctg
18661 tgggttttga ctatgtctat aaccatttta tgattgatgt tcagcagtggt ggctttacgg
18721 gtaaccttca gagtaaccat gaccaacatt gccaggtaca tggaaatgca catgtggcta
18781 gttgtgatgc tatcatgact agatgtttag cagtccatga gtgctttgtt aagcgcgttg
18841 attggctctg tgaataccct attataggag atgaactgag gggttaattct gcttgcaaaa
18901 aagtacaaca catggttgtg aagtctgcat tgcttgctga taagtttcca gttcttcatg
18961 acattggaaa tccaaagggt atcaagtgtg tgcctcaggc tgaagtagaa tggaaactct
19021 acgatgctca gccatgtagt gacaaagctt acaaaataga ggaactcttc tattcttatg
19081 ctacacatca cgataaattc actgtgggtg tttgtttgtt ttggaattgt aacgttgatc
19141 gttaccagc caatgcaatt ctgtgtagggt ttgacacaag agtcttgtca aactgaact
19201 taccaggctg tgatgggtgg agtttgtatg tgaataagca tgcattccac actccagctt
19261 tcgataaaaag tgcatttact aatttaaagc aattgccttt cttttactat tctgatagtc
19321 cttgtgagtc tcatggcaaa caagtagtgt cggatattga ttatgttcca ctcaaactg
19381 ctacgtgtat tacacgatgc aatttaggtg gtgctgtttg cagacaccat gcaaatgagt
19441 accgacagta cttggatgca tataatatga tgatttctgc tggatttagc ctatggattt
19501 acaacaatt tgatacttat aacctgtgga atacatttac caggttacag agtttagaaa
19561 atgtggctta taatgttgtt aataaaggac actttgatgg acacgccggc gaagcacctg
19621 tttccatcat taataatgct gtttacacaa aggtagatgg tattgatgtg gagatctttg
19681 aaaataagac aacacttcct gttaatgttg catttgagct ttgggctaag cgtaacatta
19741 aaccagtgcc agagattaag atactcaata atttgggtgt tgatatcgct gctaatactg
19801 taatctggga ctacaaaaga gaagccccag cacatgtatc tacaataggt gtctgcacaa
19861 tgactgacat tgccaagaaa cctactgaga gtgctgttgc ttcacttact gtctgtttg
19921 atggtagagt ggaaggacag gtagaccttt ttagaaacgc ccgtaatggg gttttaataa
19981 cagaagggtc agtcaaagggt ctaacacctt caaagggacc agcacaagct agcgtcaatg
20041 gagtcacatt aattggagaa tcagtaaaaa cacagtttaa ctactttaag aaagtagacg
20101 gcattattca acagttgcct gaaacctact ttactcagag cagagactta gaggatttta

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FIG. 10 Con't

20161	agcccagatc	acaaatggaa	actgactttc	tcgagctcgc	tatggatgaa	ttcatcacgc
20221	gatataagct	cgagggttat	gccttcgaac	acatcgttta	tggagatttc	agtcatggac
20281	aacttggcgg	tcttcattta	atgataggct	tagccaagcg	ctcacaagat	tcaccactta
20341	aattagagga	ttttatccct	atggacagca	cagtgaaaaa	ttacttcata	acagatgcgc
20401	aaacaggttc	atcaaaatgt	gtgtgttctg	tgattgatct	tttacttgat	gactttgtcg
20461	agataataaa	gtcacaagat	ttgtcagtga	tttcaaaaagt	ggtcaagggt	acaattgact
20521	atgctgaaat	ttcattcatg	ctttgggtgta	aggatggaca	tgttgaaacc	ttctacccaa
20581	aactacaagc	aagtcaagcg	tggcaaccag	gtgttgcgat	gcctaacttg	tacaagatgc
20641	aaagaatgct	tcttgaaaag	tgtgaccttc	agaattatgg	tgaaaatgct	gttatacca
20701	aaggaataat	gatgaatgtc	gcaaagtata	ctcaactgtg	tcaatactta	aatacactta
20761	cttttagctgt	accctacaac	atgagagtta	ttcactttgg	tgctggctct	gataaaggag
20821	ttgcaccagg	tacagctgtg	ctcagacaat	ggttgccaac	tggcacacta	cttgtcgatt
20881	cagatcttaa	tgacttcgtc	tccgacgcag	attctacttt	aattggagac	tgtgcaacag
20941	tacatacggc	taataaatgg	gaccttatta	ttagcgatat	gtatgacctt	aggaccaaac
21001	atgtgacaaa	agagaatgac	tctaaagaag	ggtttttcac	ttatctgtgt	ggatttataa
21061	agcaaaaact	agccctgggt	ggttctatag	ctgtaaagat	aacagagcat	tcttggaatg
21121	ctgaccttta	caagcttatg	ggccattttct	catggtggac	agcttttgtt	acaaatgtaa
21181	atgcatcatc	atcggaagca	tttttaattg	gggctaacta	tcttggaag	ccgaaggaac
21241	aaattgatgg	ctataccatg	catgctaact	acattttctg	gaggaacaca	aatcctatcc
21301	agttgtcttc	ctattcactc	tttgacatga	gcaaatcttc	tcttaaatga	agaggaactg
21361	ctgtaatgtc	tcttaaggag	aatcaaatca	atgatatgat	ttattctctt	ctggaaaaag
21421	gtaggcttat	cattagagaa	aacaacagag	ttgtgggttc	aagtgatatt	cttgtaacaa
21481	actaaacgaa	catgtttatt	ttcttattat	ttcttactct	cactagtggg	agtgaccttg
21541	accggtgcac	cacttttgat	gatgttcaag	ctcctaatta	cactcaacat	acttcatcta
21601	tgaggggggt	ttactatcct	gatgaaattt	ttagatcaga	cactctttat	ttactcagg
21661	atttattttct	tccattttat	tctaattgta	caggggttca	tactattaat	catacgtttg
21721	gcaaccctgt	catacctttt	aaggatggta	tttattttgc	tgccacagag	aaatcaaatg
21781	ttgtccgtgg	ttgggttttt	ggttctacca	tgaacaacaa	gtcacagtcg	gtgattatta
21841	ttaacaattc	tactaatggt	gttatcacag	catgtaactt	tgaattgtgt	gacaaccctt
21901	tctttgctgt	ttctaaaccc	atgggtacac	agacacatac	tatgatattc	gataatgcat
21961	ttaattgcac	tttcgagtac	atatctgatg	ccttttcgct	tgatgtttca	gaaaagtcag
22021	gtaatttttaa	acacttacga	gagtttgtgt	ttaaaaataa	agatgggttt	ctctatgttt
22081	ataagggcta	tcaacctata	gatgtagtgc	gtgatctacc	ttctgggttt	aacactttga
22141	aacctatttt	taagttgcct	cttggtatta	acattacaaa	ttttagagcc	attcttacag
22201	ccttttcacc	tgctcaagac	atttggggca	cgtcagctgc	agcctatttt	gttggtattt
22261	taaagccaac	tacattttatg	ctcaagtatg	atgaaaatgg	tacaatcaca	gatgctgttg
22321	attgttctca	aaatccactt	gctgaactca	aatgctctgt	taagagcttt	gagattgaca
22381	aaggaattta	ccagacctct	aatttcaggg	ttgttccttc	aggagatggt	gtgagattcc
22441	ctaataattac	aaacttgtgt	ccttttgag	agggttttaa	tgctactaaa	ttccctctcg
22501	tctatgcatg	ggagagaaaa	aaaatttcta	attgtgttgc	tgattactct	gtgctctaca
22561	actcaacatt	tttttcaacc	tttaagtgtc	atggcgtttc	tgccactaag	ttgaatgatc
22621	tttgcttctc	caatgtctat	gcagattcct	ttgtagtcaa	gggagatgat	gtaagacaaa
22681	tagcgccagg	acaaactggg	gttattgctg	attataatta	taaattgcca	gatgatttca
22741	tgggttgtgt	ccttgcttgg	aatactagga	acattgatgc	tacttcaact	ggtaattata
22801	attataaata	taggtatcct	agacatggca	agcttaggcc	ctttgagaga	gacatatcta
22861	atgtgccttt	ctccctgat	ggcaaacctt	gcacccacc	tgctcttaat	tgttattggc
22921	cattaaatga	ttatggtttt	tacaccacta	ctggcattgg	ctaccaacct	tcacaggttg
22981	tagtactttc	ttttgaactt	ttaaattgcac	cggccacggg	ttgtggacca	aaattatcca
23041	ctgtaacttat	taagaaccag	tgtgtcaatt	ttaatttttaa	tggactcact	ggtaggtgtg
23101	tgttaactcc	ttcttcaaag	agatttcaac	catttcaaca	atttgccgtg	gatgtttctg
23161	atttctactga	ttccgttcga	gacctaataa	catctgaaat	attagacatt	tcaccttgct
23221	cttttggggg	tgtaagtgtg	attacacctg	gaacaaatgc	ttcatctgaa	gttgctgttc
23281	tatatcaaga	tgtaactgc	actgatgttt	ctacagcaat	tcatgcagat	caactcacac
23341	cagcttggcg	catatatctt	actggaaaaca	atgtattcca	gactcaagca	ggctgtctta
23401	taggagctga	gcatgtcgac	acttcttatg	agtgcgacat	tcctattgga	gctggcattt
23461	gtgctagtta	ccatacagtt	tctttattac	gtagtactag	ccaaaaatct	attgtggcct

FIG. 10 Con't

23521	atactatgtc	tttaggtgct	gatagttcaa	ttgcttactc	taataacacc	attgctatac
23581	ctactaactt	ttcaattagc	attactacag	aagtaatgcc	tgtttctatg	gctaaaacct
23641	ccgtagattg	taatatgtac	atctgcgagg	attctactga	atgtgctaata	ttgcttctcc
23701	aatatggtag	cttttgcaca	caactaaatc	gtgcactctc	aggtattgct	gctgaacagg
23761	atcgcaacac	acgtgaagtg	ttcgctcaag	tcaaaacaaat	gtacaaaacc	ccaactttga
23821	aatattttgg	tggttttaaat	ttttcacaaa	tattacctga	ccctctaaag	ccaactaaga
23881	ggctttttat	tgaggacttg	ctctttaata	aggtgacact	cgctgatgct	ggcttcatga
23941	agcaatatgg	cgaatgccta	ggtgatatta	atgctagaga	tctcatttgt	gcgcagaagt
24001	tcaatggact	tacagtgttg	ccacctctgc	tactgatga	tatgattgct	gcctacactg
24061	ctgctctagt	tagtggtact	gccactgctg	gatggacatt	tggtgctggc	gctgctcttc
24121	aaataccttt	tgctatgcaa	atggcatata	ggttcaatgg	cattggagtt	ccccaaaatg
24181	ttctctatga	gaaccaaaaa	caaatcgcca	accaatttaa	caaggcgatt	agtcaaattc
24241	aagaatcact	tacaacaaca	tcaactgcat	tgggcaagct	gcaagacgtt	gttaaccaga
24301	atgctcaagc	attaaacaca	cttggttaaac	aacttagctc	taattttggg	gcaatttcaa
24361	gtgtgctaaa	tgatatcctt	tcgcgacttg	ataaagtcga	ggcggaggta	caaattgaca
24421	gggttaattac	aggcagactt	caaagccttc	aaacctatgt	aacacaacaa	ctaatacagg
24481	ctgctgaaat	cagggccttc	gctaactctg	ctgctactaa	aatgtctgag	tgtgttcttg
24541	gacaatcaaa	aagagttgac	ttttgtggaa	agggctacca	ccttatgtcc	ttcccacaag
24601	cagccccgca	tggtgttgct	ttcctacatg	tcacgtatgt	gccatcccg	gagaggaact
24661	tcaccacagc	gccagcaatt	tgtcatgaag	gcaaagcata	cttccctcgt	gaaggtgttt
24721	ttgtgtttta	tggcacttct	tggtttatta	cacagaggaa	cttcttttct	ccacaaataa
24781	ttactacaga	caatacattt	gtctcaggaa	attgtgatgt	cgttattggc	atcattaaca
24841	acacagttta	tgatcctctg	caacctgagc	ttgactcatt	caaagaagag	ctggacaagt
24901	acttcaaaaa	tcatacatca	ccagatgttg	atcttggcga	catttcaggc	attaacgctt
24961	ctgtcgtaaa	cattcaaaaa	gaaattgacc	gcctcaatga	ggtcgctaaa	aatttaaatg
25021	aatcactcat	tgaccttcaa	gaattgggaa	aatatgagca	atatattaaa	tggccttggt
25081	atgtttggct	cggttccatt	gctggactaa	ttgccatcgt	catggttaca	atcttgcttt
25141	gttgcatgac	tagttgttgc	agttgcctca	aggggtgatg	ctcttgtggt	ctttgctgca
25201	agtttgatga	ggatgactct	gagccagttc	tcaaggggtg	caaattacat	tacacataaa
25261	cgaacttatg	gatttgttta	tgagattttt	tactcttggg	tcaattactg	cacagccagt
25321	aaaaattgac	aatgcttctc	ctgcaagtac	tgttcatgct	acagcaacga	taccgctaca
25381	agcctcactc	cctttcggat	ggcttggtat	tggcggttga	tttcttgctg	tttttcagag
25441	cgtaccacaa	ataattgctc	tcaataaaaag	atggcagcta	gccctttata	agggcttcca
25501	gttcatttgc	aatttactgc	tgctatttgt	taccatctat	tcacatcttt	tgcttgtcgc
25561	tgcaggtaag	gagggcgcaat	ttttgtacct	ctatgccttg	atatattttc	tacaatgcat
25621	caacgcgatg	agaattatta	tgagatgttg	gctttgttgg	aagtgcacaa	ccaagaaccc
25681	attactttat	gatgccaaact	actttgtttg	ctggcacaca	cataactatg	actactgtat
25741	accatataac	agtgtcacag	atacaattgt	cgttactgaa	ggtgacggca	tttcaacacc
25801	aaaactcaaa	gaagactacc	aaattgggtg	ttattctgag	gataggcact	caggtgttaa
25861	agactatgtc	gttgtagatg	gctattttcac	cgaagtttac	taccagcttg	agtctacaca
25921	aattactaca	gacactggta	ttgaaaatgc	tacattcttc	atctttaaca	agcttgttaa
25981	agaccaccg	aatgtgcaaa	tacacacaat	cgacggctct	tcaggagttg	ctaataccagc
26041	aatggatcca	atttatgatg	agccgacgac	gactactagc	gtgcctttgt	aagcacaaga
26101	aagtgaagtac	gaacttatgt	actcattcgt	ttcggaagaa	acaggtagct	taatagttaa
26161	tagcgtactt	ctttttcttg	ctttcgtggg	attcttgcta	gtcacactag	ccatccttac
26221	tgcgcttcga	ttgtgtgctg	actgctgcaa	tattgttaac	gtgagtttag	taaaaccaac
26281	ggtttacgtc	tactcgctg	ttaaaaatct	gaactcttct	gaaggagttc	ctgatcttct
26341	ggtctaaacg	aactaactat	tattattatt	ctgtttggaa	ctttaacatt	gcttatcatg
26401	gcagacaacg	gtactattac	cgttgaggag	cttaaacacac	tcctggaaca	atggaaacct
26461	gtaataggtt	tcctattcct	agcctggatt	atgttactac	aatttgccta	ttctaactcg
26521	aacaggtttt	tgtacataat	aaagcttggt	ttcctctggc	tcttgtggcc	agtaaacact
26581	gcttggtttg	tgcttgctgt	tgtctacaga	attaattggg	tgactggcgg	gattgagatt
26641	gcaatggctt	gtattgtagg	cttgatgtgg	cttagctact	tcggtgcttc	cttcaggctg
26701	tttgctcgta	cccgtcfaat	gtggtcattc	aaccagaaa	caaacattct	tctcaatgtg
26761	cctctccggg	ggacaattgt	gaccagaccg	ctcatggaaa	gtgaacttgt	cattggtgct
26821	gtgatcattc	gtggtcactt	gcgaatggcc	ggacactccc	tagggcgctg	tgacattaag

FIG. 10 Con't

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26881 gacctgccaa aagagatcac tgtggctaca tcacgaacgc tttcttatta caaattagga
26941 gcgtcgcac gtgtaggcac tgattcaggt tttgctgcat acaaccgcta ccgtattgga
27001 aactataaat taaatacaga ccacgccggt agcaacgaca atattgcttt gctagtacag
27061 taagtgcaca cagatgtttc atcttggtga cttccaggtt acaatagcag agatattgat
27121 tatcattatg aggactttca ggattgctat ttggaatctt gacgttataa taagttcaat
27181 agtgagacaa ttatttaagc ctctaactaa gaagaattat tcggagttag atgatgaaga
27241 acctatggag ttagattatc cataaaacga acatgaaaat tattctcttc ctgacattga
27301 ttgtattttac atcttgcgag ctatatcact atcaggagtg tgtagagggt acgactgtac
27361 tactaaaaga accttgccca tcaggaacat acgagggcaa ttcaccattt caccctcttg
27421 ctgacaataa atttgcacta acttgacta gcacacactt tgcttttgct tgtgctgacg
27481 gtactcgaca tacctatcag ctgcgtgcaa gatcagtttc accaaaactt ttcattcagac
27541 aagaggaggt tcaacaagag ctctactcgc cactttttct cattgttgct gctctagtat
27601 ttttaatact ttgcttcacc attaagagaa agacagaatg aatgagctca ctttaattga
27661 cttctatttg tgctttttag cctttctgct attccttggt ttaataatgc ttattatatt
27721 ttggttttca ctcgaaatcc aggatctaga agaacttggt accaaagtct aaacgaacat
27781 gaaacttctc attgttttga cttgtatttc tctatgcagt tgcatatgca ctgtagtaca
27841 gcgctgtgca tctaataaac ctcatgtgct tgaagatcct tgtaaggtag aacactaggg
27901 gtaatactta tagcactgct tggttttggt ctctaggaaa ggttttacct tttcatagat
27961 ggcacactat ggttcaaaca tgcacaccta atgttactat caactgtcaa gatccagctg
28021 gtggtgcgct tatagctagg tgttggtacc ttcattgaagg tcaccaaact gctgcattta
28081 gagagctact tgttgtttta aataaacgaa caaattaaaa tgtctgataa tggaccccaa
28141 tcaaaccaac gtagtgcccc ccgcattaca tttggtggac ccacagattc aactgacaat
28201 aaccagaatg gaggacgcaa tggggcaagg ccaaacagc gccgacccca aggtttaccc
28261 aataatactg cgtcttggtt cacagctctc actcagcatg gcaaggagga acttagattc
28321 cctcgaggcc agggcggtcc aatcaacacc aatagtggtc cagatgacca aattggctac
28381 taccgaagag ctacccgacg agttcgtggt ggtgacggca aaatgaaaga gctcagcccc
28441 agatggtact tctattacct aggaactggc ccagaagctt cacttcccta cggcgctaac
28501 aaagaaggca tcgtatgggt tgcaactgag ggagccttga atacacccaa agaccacatt
28561 ggcacccgca atcctaataa caatgctgac acctgctac aacttccca aggaacaaca
28621 ttgccaaaag gcttctacgc agagggaagc agaggcgga gtcaagcctc ttctcgctcc
28681 tcatcacgta gtgcggttaa ttcaagaaat tcaactcctg gcagcagtag gggaaattct
28741 cctgctcgaa tggctagcgg aggtggtgaa actgccctcg cgctattgct gctagacaga
28801 ttgaaccagc ttgagagcaa agtttctggt aaaggccaac aacaacaagg ccaaactgtc
28861 actaagaaat ctgctgctga ggcattctaa aagcctcgcc aaaaacgtac tgccacaaaa
28921 cagtacaacg tcaactcaagc atttgggaga cgtggtccag aacaaaccca aggaaatttc
28981 ggggaccaag acctaatacag acaaggaact gattacaaac attggccgca aattgcacaa
29041 tttgctccaa gtgcctctgc attctttgga atgtcacgca ttggcatgga agtcacacct
29101 tcgggaacat ggctgactta tcatggagcc attaaattgg atgacaaaga tccacaattc
29161 aaagacaacg tcatactgct gaacaagcac attgacgcat acaaaacatt cccaccaaca
29221 gagcctaaaa aggacaaaaa gaaaaagact gatgaagctc agcctttgcc gcagagacaa
29281 aagaagcagc ccaactgtgac tcttcttctc gcggctgaca tggatgattt ctccagacaa
29341 cttcaaaatt ccatgagtgg agcttctgct gattcaactc aggcataaac actcatgatg
29401 accacacaag gcagatgggc tatgtaaacg ttttcgcaat tccgtttacg atacatagtc
29461 tactcttggt cagaatgaat tctcgtaact aaacagcaca agtaggttta gttaacttta
29521 atctcacata gcaatcttta atcaatgtgt aacattaggg aggacttgaa agagccacca
29581 cattttcatc gaggccacgc ggagtacgat cgagggtaca gtgaataatg ctaggagag
29641 ctgcctatat ggaagagccc taatgtgtaa aattaatttt agtagtgcta tccccatgtg
29701 attttaatag cttcttagga gaatgacaaa aaaaaaaaaa aa

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FIG. 10 Con't

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1 - ATATTAGT TTTTACCTACCCAGGAAAAGCCAACCAACCTCGATCTCTTGTAGATCTGTT - 60
- I L G F Y L P R K S Q P T S I S C R S V
- Y * V F T Y P G K A N Q P R S L V D L F
- I R F L P T Q E K P T N L D L L * I C S
61 - CTCTAAACGAACTTTAAATCTGTGTAGCTGTGCTCGGCTGCATGCCTAGTGCACCTAC - 120
- L * T N F K I C V A V A R L H A * C T Y
- S K R T L K S V * L S L G C M P S A P T
- L N E L * N L C S C R S A A C L V H L R
121 - GCAGTATAAACAATAATAAATTTTACTGTGCTTGACAAGAAACGAGTAACTCGTCCCTCT - 180
- A V * T I I N F T V V D K K R V T R P S
- Q Y K Q * * I L L S L T R N E * L V P L
- S I N N K F Y C R * Q E T S N S S L F
181 - TCTGCAGACTGCTTACGGTTTCGTCCGTGTTGCAGTCGATCATCAGCATACCTAGGTTTC - 240
- S A D C L R F R P C C S R S S A Y L G F
- L Q T A Y G F V R V A V D H Q H T * V S
- C R L L T V S S V L Q S I I S I P R F R
241 - GTCCGGGTGTGACCGAAAGGTAAGATGGAGAGCCTTGTTCTTGGTGTCAACGAGAAAAACA - 300
- V R V * P K G K M E S L V L G V N E K T
- S G C D R K V R W R A L F L V S T R K H
- P G V T E R * D G E P C S W C Q R E N T
301 - CACGTCCAACCTAGTTTGCCTGTCTTCAGGTTAGAGACGTGCTAGTGCCTGGCTTCGGG - 360
- H V Q L S L P V L Q V R D V L V R G F G
- T S N S V C L S F R L E T C * C V A S G
- R P T Q F A C P S G * R R A S A W L R G
361 - GACTCTGTGGAAGAGGCCCTATCGGAGGCACGTGAACACCTCAAAAATGGCACTTGTGGT - 420
- D S V E E A L S E A R E H L K N G T C G
- T L W K R P Y R R H V N T S K M A L V V
- L C G R G P I G G T * T P Q K W H L W S
421 - CTAGTAGAGCTGGA AAAAGGCGTACTGCCCCAGCTTGAACAGCCCTATGTGTTTCATTAAA - 480
- L V E L E K K G V L P Q L E Q P Y V F I K
- * * S W K K A Y C P S L N S P M C S L N
- S R A G K R R T A P A * T A L C V H * T
481 - CGTTCTGATGCCTTAAGCACCAATCACGGCCACAAGGTCGTTGAGCTGGTTGCAGAAATG - 540
- R S D A L S T N H G H K V V E L V A E M
- V L M P * A P I T A T R S L S W L Q K W
- F * C L K H Q S R P Q G R * A G C R N G
541 - GACGGCATTAGTACGGTCGTAGCGGTATAACACTGGGAGTACTCGTGCCACATGTGGGC - 600
- D G I Q Y G R S G I T L G V L V P H V G
- T A F S T V V A V * H W E Y S C H M W A
- R H S V R S * R Y N T G S T R A T C G R
601 - GAAACCCCAATTGCATACCGCAATGTTCTTCTTCGTAAGAACGGTAATAAGGGAGCCGGT - 660
- E T P I A Y R N V L L R K N G N K G A G
- K P Q L H T A M F F F V R T V I R E P V
- N P N C I P Q C S S S * E R * * G S R W
661 - GGTCATAGCTATGGCATCGATCTAAAGTCTTATGACTTAGGTGACGAGCTTGGCACTGAT - 720
- G H S Y G I D L K S Y D L G D E L G T D
- V I A M A S I * S L M T * V T S L A L I
- S * L W H R S K V L * L R * R A W H * S
721 - CCCATTGAAGATTATGAACAAAACCTGGAACACTAAGCATGGCAGTGGTGCACCTCCGTGAA - 780
- P I E D Y E Q N W N T K H G S G A L R E
- P L K I M N K T G T L S M A V V H S V N
- H * R L * T K L E H * A W Q W C T P * T
781 - CTCACTCGTGAGCTCAATGGAGGTGCAGTCACTCGCTATGTGACAACAATTTCTGTGGC - 840
- L T R E L N G G A V T R Y V D N N F C G
- S L V S S M E V Q S L A M S T T I S V A
- H S * A Q W R C S H S L C R Q Q F L W P

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FIG. 11

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841 - CCAGATGGGTACCCTCTTGATTGCATCAAAGATTTTCTCGCACGCGGGCAAGTCAATG - 900
- P D G Y P L D C I K D F L A R A G K S M
- Q M G Y T L L I A S K I F S H A R A S Q C
- R W V P S * L H Q R F S R T R G Q V N V
901 - TGCCTCTTTCCGAACAACTTGATTACATCGAGTCGAAGAGAGGTGTCTACTGCTGCCGT - 960
- C T L S E Q L D Y I E S K R G V Y C C R
- A L F P N N L I T S S R R E V S T A A V
- H S F R T T * L H R V E E R C L L L P *
961 - GACCATGAGCATGAAATTGCCTGGTTCACTGAGCGCTCTGATAAGAGCTACGAGCACCAG - 1020
- D H E H E I A W F T E R S D K S Y E H Q
- T M S M K L P G S L S A L I R A T S T R
- P * A * N C L V H * A L * * E L R A P D
1021 - ACACCTTTCGAAATTAAGAGTGCCAAGAAATTTGACACTTTCAAAGGGGAATGCCCAAAG - 1080
- T P F E I K S A K K F D T F K G E C P K
- H P S K L R V P R N L T L S K G N A Q S
- T L R N * E C Q E I * H F Q R G M P K V
1081 - TTTGTGTTTCTCTTAAGTCAAAAGTCAAAAGTCAATTCACACGTGTTGAAAAGAAAAAG - 1140
- F V F P L N S K V K V I Q P R V E K K K
- L C F L L T Q K S K S F N H V L K R K R
- C V S S * L K S Q S H S T T C * K E K D
1141 - ACTGAGGGTTTCATGGGGCGTATACGCTCTGTGTACCCTGTTGCATCTCCACAGGAGTGT - 1200
- T E G F M G R I R S V Y P V A S P Q E C
- L R V S W G V Y A L C T L L H L H R S V
- * G F H G A Y T L C V P C C I S T G V *
1201 - AACAAATATGCACTTGTCTACCTTGATGAAATGTAATCATTGCGATGAAGTTTCATGGCAG - 1260
- N N M H L S T L M K C N H C D E V S W Q
- T I C T C L P * * N V I I A M K F H G R
- Q Y A L V Y L D E M * S L R * S F M A D
1261 - ACGTGCAGCTTTCTGAAAGCCACTTGTGAACATTGTGGCACTGAAAATTTAGTTATTGAA - 1320
- T C D F L K A T C E H C G T E N L V I E
- R A T F * K P L V N I V A L K I * L L K
- V R L S E S H L * T L W H * K F S Y * R
1321 - GGACCTACTACATGTGGGTACCTACCTACTAATGCTGTAGTGAAAATGCCATGTCTCTGCC - 1380
- G P T T C G Y L P T N A V V K M P C P A
- D L L H V G T Y L L M L * * K C H V L P
- T Y Y M W V P T Y * C C S E N A M S C L
1381 - TGTCAAGACCCAGAGATTGGACCTGAGCATAGTGTGAGATTATCACAACCACTCAAAC - 1440
- C Q D P E I G P E H S V A D Y H N H S N
- V K T Q R L D L S I V L Q I I T T T Q T
- S R P R D W T * A * C C R L S Q P L K H
1441 - ATTGAAACTCGACTCCGCAAGGGAGGTAGGACTAGATGTTTTGGAGGCTGTGTGTTGCC - 1500
- I E T R L R K G G R T R C F G G C V F A
- L K L D S A R E V G L D V L E A V C L P
- * N S T P Q G R * D * M F W R L C V C L
1501 - TATGTTGGCTGCTATAATAAGCGTGCCTACTGGGTTCTCGTCTAGTGTGATATTGGC - 1560
- Y V G C Y N K R A Y W V P R A S A D I G
- M L A A I I S V P T G F L V L V L I L A
- C W L L * * A C L L G S S C * C * Y W L
1561 - TCAGGCCATACTGGCATTACTGGTGACAATGTGGAGACCTTGAATGAGGATCTCCTTGAG - 1620
- S G H T G I T G D N V E T L N E D L L E
- Q A I L A L L V T M W R P * M R I S L R
- R P Y W H Y W * Q C G D L E * G S P * D
1621 - ATACTGAGTCGTGAACGTGTTAACATTAACATTGTTGGCGATTTTCATTTGAATGAAGAG - 1680
- I L S R E R V N I N I V G D F H L N E E
- Y * V V N V L T L T L L A I F I * M K R
- T E S * T C * H * H C W R F S F E * R G

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FIG. 11 Con't


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1681 - GTTGCCATCATTTTTGGCATCTTTCTCTGCTTCTACAAGTGCCTTTATTGACACTATAAAG - 1740
    - V A I I L A S F S A S T S A F I D T I K
    - L P S F W H L S L L L Q V P L L T L * R
    - C H H F G I F L C F Y K C L Y * H Y K E
1741 - AGTCTTGATTACAAGTCTTTCAAAACCATTGTTGAGTCCTGCGGTAACATAAAGTTACC - 1800
    - S L D Y K S F K T I V E S C G N Y K V T
    - V L I T S L S K P L L S P A V T I K L P
    - S * L Q V F Q N H C * V L R * L * S Y Q
1801 - AAGGGAAAGCCCGTAAAAGGTGCTTGGAAACATTGGACAACAGAGATCAGTTTTAACACCA - 1860
    - K G K P V K G A W N I G Q Q R S V L T P
    - R E S P * K V L G E T L D N R D Q F * H H
    - G K A R K R C L E H W T T E I S F N T T
1861 - CTGTGTGGTTTTCCCTCACAGGCTGCTGGTGTATCAGATCAATTTTTGCGCGCACACTT - 1920
    - L C G F P S Q A A G V I R S I F A R T L
    - C V V F P H R L L V L S D Q F L R A H L
    - V W F S L T G C W C Y Q I N F C A H T *
1921 - GATGCAGCAAACCACTCAATTCCTGATTTGCAAAGAGCAGCTGTCACCATACTTGATGGT - 1980
    - D A A N H S I P D L Q R A A V T I L D G
    - M Q Q T T Q F L I C K E Q L S P Y L M V
    - C S K P L N S * F A K S S C H H T * W Y
1981 - ATTTCTGAACAGTCATTACGTCTTGTGCGACGCCATGGTTTATACTTCAGACCTGCTCACC - 2040
    - I S E Q S L R L V D A M V Y T S D L L T
    - F L N S H Y V L S T P W F I L Q T C S P
    - F * T V I T S C R R H G L Y F R P A H Q
2041 - AACAGTGTCAATTATTATGGCATATGTAACGGTGGTCTTGTACAACAGACTTCTCAGTGG - 2100
    - N S V I I M A Y V T G G L V Q Q T S Q W
    - T V S L L W H M * L V V L Y N R L L S G
    - Q C H Y Y G I C N W W S C T T D F S V V
2101 - TTGTCTAATCTTTTGGGCACTACTGTTGAAAACTCAGGCCTATCTTTGAATGGATTGAG - 2160
    - L S N L L G T T V E K L R P I F E W I E
    - C L I F W A L L L K N S G L S L N G L R
    - V * S F G H Y C * K T Q A Y L * M D * G
2161 - GCGAAACTTAGTGCAGGAGTTGAATTTCTCAAGGATGCTTGGGAGATTCTCAAATTTCTC - 2220
    - A K L S A G V E F L K D A W E I L K F L
    - R N L V Q E L N F S R M L G R F S N F S
    - E T * C R S * I S Q G C L G D S Q I S H
2221 - ATTACAGGTGTTTTTGACATCGTCAAGGGTCAAATACAGGTTGCTTCAGATAACATCAAG - 2280
    - I T G V F D I V K G Q I Q V A S D N I K
    - L Q V F L T S S R V K Y R L L Q I T S R
    - Y R C F * H R Q G S N T G C F R * H Q G
2281 - GATTGTGTAAAATGCTTCATTGATGTTGTTAACAAGGCACTCGAAATGTGCATTGATCAA - 2340
    - D C V K C F I D V V N K A L E M C I D Q
    - I V * N A S L M L L T R H S K C A L I K
    - L C K M L H * C C * Q G T R N V H * S S
2341 - GTCACTATCGCTGGCGCAAAGTTGCGATCACTCAACTTAGGTGAAGTCTTCATCGCTCAA - 2400
    - V T I A G A K L R S L N L G E V F I A Q
    - S L S L A Q S C D H S T * V K S S S L K
    - H Y R W R K V A I T Q L R * S L H R S K
2401 - AGCAAGGGACTTTACCGTCAGTGTATACGTGGCAAGGAGCAGCTGCAACTACTCATGCCT - 2460
    - S K G L Y R Q C I R G K E Q L Q L L M P
    - A R D F T V S V Y V A R S S C N Y S C L
    - Q G T L P S V Y T W Q G A A A T T H A S
2461 - CTTAAGGCACCAAAAAGAAGTAACCTTTCTTGAAGGTGATTACATGACACAGTACTTACC - 2520
    - L K A P K E V T F L E G D S H D T V L T
    - L R H Q K K * P F L K V I H M T Q Y L P
    - * G T K R S N L S * R * F T * H S T Y L

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FIG. 11 Con't

2521 - TCTGAGGAGGTTGTTCTCAAGAACGGTGAACCTCGAAGCACTCGAGACGCCCCGTTGATAGC - 2580
 - S E E V V L K N G E L E A L E T P V D S
 - L R R L F S R T V N S K H S R R P L I A
 - * G G C S Q E R * T R S T R D A R * * L
 2581 - TTCACAAATGGAGCTATCGTCGGCACACCAGTCTGTGTAAATGGCCTCATGCTCTTAGAG - 2640
 - F T N G A I V G T P V C V N G L M L L E
 - S Q M E L S S A H Q S V * M A S C S * R
 - H K W S Y R R H T S L C K W P H A L R D
 2641 - ATTAAGGACAAAGAACAATACTGCGCATTGTCTCTGGTTTACTGGCTACAAACAATGTC - 2700
 - I K D K E Q Y C A L S P G L L A T N N V
 - L R T K N N T A H C L L V Y W L Q T M S
 - * G Q R T I L R I V S W F T G Y K Q C L
 2701 - TTTCGCTTAAAAGGGGTGCACCAATTAAAGGTGTAACCTTTGGAGAAGATACTGTTTGG - 2760
 - F R L K G G A P I K G V T F G E D T V W
 - F A * K G V H Q L K V * P L E K I L F G
 - S L K R G C T N * R C N L W R R Y C L G
 2761 - GAAGTTCAAGGTTACAAGAATGTGAGAATCACATTTGAGCTTGATGAACGTGTTGACAAA - 2820
 - E V Q G Y K N V R I T F E L D E R V D K
 - K F K V T R M * E S H L S L M N V L T K
 - S S R L Q E C E N H I * A * * T C * Q S
 2821 - GTGCTTAATGAAAAGTGCTCTGTCTACTGTGAATCCGGTACCGAAGTTACTGAGTTT - 2880
 - V L N E K C S V Y T V E S G T E V T E F
 - C L M K S A L S T L L N P V P K L L S L
 - A * * K V L C L H C * I R Y R S Y * V C
 2881 - GCATGTGTTGTAGCAGAGGCTGTTGTGAAGACTTTACAACCAGTTTCTGATCTCCTTACC - 2940
 - A C V V A E A V V K T L Q P V S D L L T
 - H V L * Q R L L * R L Y N Q F L I S L P
 - M C C S R G C C E D F T T S F * S P Y Q
 2941 - AACATGGGTATTGATCTTGATGAGTGGAGTGTAGCTACATTCTACTTATTTGATGAGCT - 3000
 - N M G I D L D E W S V A T F Y L F D D A
 - T W V L I L M S G V * L H S T Y L M M L
 - H G Y * S * * V E C S Y I L L I * * C W
 3001 - GGTGAAGAAAACCTTTTCATCACGTATGTATTGTTCCCTTTTACCCTCCAGATGAGGAAGAA - 3060
 - G E E N F S S R M Y C S F Y P P D E E E
 - V K K T F H H V C I V P F T L Q M R K K
 - * R K L F I T Y V L F L L P S R * G R R
 3061 - GAGGACGATGCAGAGTGTGAGGAAGAAGAAATTGATGAAACCTGTGAACATGAGTACGGT - 3120
 - E D D A E C E E E E I D E T C E H E Y G
 - R T M Q S V R K K L M K P V N M S T V
 - G R C R V * G R R N * * N L * T * V R Y
 3121 - ACAGAGGATGATTATCAAGGTCTCCCTCTGGAATTTGGTGCCTCAGCTGAAACAGTTCGA - 3180
 - T E D D Y Q G L P L E F G A S A E T V R
 - Q R M I I K V S L W N L V P Q L K Q F E
 - R G * L S R S P S G I W C L S * N S S S
 3181 - GTTGAGGAAGAAGAAGAGGAAGACTGGCTGGATGATACTACTGAGCAATCAGAGATTGAG - 3240
 - V E E E E E D W L D D T T E Q S E I E
 - L R K K R K R T G W M I L L S N Q R L S
 - * G R R R G R L A G * Y Y * A I R D * A
 3241 - CCAGAACCAGAACCTACACCTGAAGAACCAGTTAATCAGTTTACTGGTTATTTAAAACCT - 3300
 - P E P E P T P E E P V N Q F T G Y L K L
 - Q N Q N L H L K N Q L I S L L V I * N L
 - R T R T Y T * R T S * S V Y W L F K T Y
 3301 - ACTGACAATGTTGCCATTAAATGTGTTGACATCGTTAAGGAGGCACAAAGTGCTAATCCT - 3360
 - T D N V A I K C V D I V K E A Q S A N P
 - L T M L P L N V L T S L R R H K V L I L
 - * Q C C H * M C * H R * G G T K C * S Y

FIG. 11 Con't

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3361 - ATGGTGATTGTAAATGCTGCTAACATACACCTGAAACATGGTGGTGGTGTAGCAGGTGCA - 3420
      - M V I V N A A N I H L K H G G G V A G A
      - W * L * M L L T Y T * N M V V V * Q V H
      - G D C K C C * H T P E T W W W C S R C T
3421 - CTCAACAAGGCAACCAATGGTGCCATGCAAAAGGAGAGTGATGATTACATTAAGCTAAAT - 3480
      - L N K A T N G A M Q K E S D D Y I K L N
      - S T R Q P M V P C K R R V M I T L S * M
      - Q Q G N Q W C H A K G E * * L H * A K W
3481 - GGCCCTCTTACAGTAGGAGGGTCTTGTGTTTCTGGACATAATCTTGCTAAGAAGTGT - 3540
      - G P L T V G G S C L L S G H N L A K K C
      - A L L Q * E G L V C F L D I I L L R S V
      - P S Y S R R V L F A F W T * S C * E V S
3541 - CTGCATGTTGTTGGACCTAACCTAAATGCAGGTGAGGACATCCAGCTTCTTAAGGCAGCA - 3600
      - L H V V G P N L N A G E D I Q L L K A A
      - C M L L D L T * M Q V R T S S F L R Q H
      - A C C W T * P K C R * G H P A S * G S I
3601 - TATGAAAATTTCAATTCACAGGACATCTTACTTGCACCATTGTTGTCAGCAGGCATATTT - 3660
      - Y E N F N S Q D I L L A P L L S A G I F
      - M K I S I H R T S Y L H C C Q Q A Y L
      - * K F Q F T G H L T C T I V V S R H I W
3661 - GGTGCTAAACCACTTCAGTCTTTACAAGTGTGCGTGCAGACGGTTCGTACACAGGTTTAT - 3720
      - G A K P L Q S L Q V C V Q T V R T Q V Y
      - V L N H F S L Y K C A C R R F V H R F I
      - C * T T S V F T S V R A D G S Y T G L Y
3721 - ATTGCACTCAATGACAAAGCTCTTTATGAGCAGGTTGTCATGGATTATCTTGATAACCTG - 3780
      - I A V N D K A L Y E Q V V M D Y L D N L
      - L Q S M T K L F M S R L S W I I L I T *
      - C S Q * Q S S L * A G C H G L S * * P E
3781 - AAGCCTAGAGTGAAGCACCTAAACAAGAGGAGCCACCAACACAGAAGATTCCAAAAC - 3840
      - K P R V E A P K Q E E P P N T E D S K T
      - S L E W K H L N K R S H Q T Q K I P K L
      - A * S G S T * T R G A T K H R R F Q N *
3841 - GAGGAGAAATCTGTCTGACAGAAGCCTGTCTGATGTGAAGCCAAAATTAAGGCCTGCATT - 3900
      - E E K S V V Q K P V D V K P K I K A C I
      - R R N L S Y R S L S M * S Q K L R P A L
      - G E I C R T E A C R C E A K N * G L H *
3901 - GATGAGGTTACCACAACACTGGAAGAACTAAGTTTCTTACCAATAAGTTACTCTTGTTT - 3960
      - D E V T T T L E E T K F L T N K L L F
      - M R L P Q H W K K L S F L P I S Y S C L
      - * G Y H N T G R N * V S Y Q * V T L V C
3961 - GCTGATATCAATGGTAAGCTTTACCATGATTCTCAGAACATGCTTAGAGGTGAAGATATG - 4020
      - A D I N G K L Y H D S Q N M L R G E D M
      - L I S M V S F T M I L R T C L E V K I C
      - * Y Q W * A L P * F S E H A * R * R Y V
4021 - TCTTTCTTGTGAGAAGGATGCACCTTACATGGTAGGTGATGTTATCACTAGTGGTGATATC - 4080
      - S F L E K D A P Y M V G D V I T S G D I
      - L S L R R M H L T W * V M L S L V V I S
      - F P * E G C T L H G R * C Y H * W * Y H
4081 - ACTTGTGTTGTAATACCCTCCAAAAGGCTGGTGGCACTACTGAGATGCTCTCAAGAGCT - 4140
      - T C V V I P S K K A G G T T E M L S R A
      - L V L * Y P P K R L V A L L R C S Q E L
      - L C C N T L Q K G W W H Y * D A L K S F
4141 - TTGAAGAAAGTGCCAGTTGATGAGTATATAACCACGTACCCTGGACAAGGATGTGCTGGT - 4200
      - L K K V P V D E Y I T T Y P G Q G C A G
      - * R K C Q L M S I * P R T L D K D V L V
      - E E S A S * * V Y N H V P W T R M C W L

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FIG. 11 Con't

4201 - TATACACTTGAGGAAGCTAAGACTGCTCTTAAGAAATGCAAATCTGCATTTTATGTACTA - 4260
 - Y T L E E A K T A L K K C K S A F Y V L
 - I H L R K L R L L L R N A N L H F M Y Y
 - Y T * G S * D C S * E M Q I C I L C T T
 4261 - CCTTCAGAAGCACCTAATGCTAAGGAAGAGATTCTAGGAAGTATCCTGGAATTTGAGA - 4320
 - P S E A P N A K E E I L G T V S W N L R
 - L Q K H L M L R K R F * E L Y P G I * E
 - F R S T * C * G R D S R N C I L E F E R
 4321 - GAAATGCTTGCTCATGCTGAAGAGACAAGAAAATTAATGCCTATATGCATGGATGTTAGA - 4380
 - E M L A H A E E T R K L M P I C M D V R
 - K C L L M L K R Q E N * C L Y A W M L E
 - N A C S C * R D K K I N A Y M H G C * S
 4381 - GCCATAATGGCAACCATCCAACGTAAGTATAAAGGAATTAAAATTCAAGAGGGCATCGTT - 4440
 - A I M A T I Q R K Y K G I K I Q E G I V
 - P * W Q P S N V S I K E L K F K R A S L
 - H N G N H P T * V * R N * N S R G H R *
 4441 - GACTATGGTGTCCGATTCTTCTTTTATACTAGTAAAGAGCCTGTAGCTTCTATTATTACG - 4500
 - D Y G V R F F F Y T S K E P V A S I I T
 - T M V S D S S F I L V K S L * L L L L R
 - L W C P I L L L Y * * R A C S F Y Y Y E
 4501 - AAGCTGAAGTCTCTAAATGAGCCGCTTGTACAATGCCAATTGGTTATGTGACACATGGT - 4560
 - K L N S L N E P L V T M P I G Y V T H G
 - S * T L * M S R L S Q C Q L V M * H M V
 - A E L S K * A A C H N A N W L C D T W F
 4561 - TTTAATCTTGAAGAGGCTGCGCGCTGTATGCGTCTCTTAAAGCTCCTGCCGTAGTGTCA - 4620
 - F N L E E A A R C M R S L K A P A V V S
 - L I L K R L R A V C V L L K L L P * C Q
 - * S * R G C A L Y A F S * S S C R S V S
 4621 - GTATCATCACCAGATGCTGTTACTACATATAATGGATACCTCACTTCGTCATCAAAGACA - 4680
 - V S S P D A V T T Y N G Y L T S S S K T
 - Y H H Q M L L L H I M D T S L R H Q R H
 - I I T R C C Y Y I * W I P H F V I K D I
 4681 - TCTGAGGAGCACTTTGTAGAAACAGTTTCTTTGGCTGGCTCTTACAGAGATTGGTCCTAT - 4740
 - S E E H F V E T V S L A G S Y R D W S Y
 - L R S T L * K Q F L W L A L T E I G P I
 - * G A L C R N S F F G W L L Q R L V L F
 4741 - TCAGGACAGCGTACAGAGTTAGGTGTTGAATTTCTTAAGCGTGGTGACAAAATGTGTAC - 4800
 - S G Q R T E L G V E F L K R G D K I V Y
 - Q D S V Q S * V L N F L S V V T K L C T
 - R T A Y R V R C * I S * A W * Q N C V P
 4801 - CACACTCTGGAGAGCCCCGTCGAGTTTCATCTTGACGGTGAGGTTCTTTCACCTTGACAAA - 4860
 - H T L E S P V E F H L D G E V L S L D K
 - T L W R A P S S F I L T V R F F H L T N
 - H S G E P R R V S S * R * G S F T * Q T
 4861 - CTAAAGAGTCTCTTATCCCTGCGGGAGGTTAAGACTATAAAAGTGTTTCAACTGTGGAC - 4920
 - L K S L L S L R E V K T I K V F T T V D
 - * R V S Y P C G R L R L * K C S Q L W T
 - K E S L I P A G G * D Y K S V H N C G Q
 4921 - AACACTAATCTCCACACACAGCTTGTGGATATGTCTATGACATATGGACAGCAGTTTGGT - 4980
 - N T N L H T Q L V D M S M T Y G Q Q F G
 - T L I S T H S L W I C L * H M D S S L V
 - H * S P H T A C G Y V Y D I W T A V W S
 4981 - CCAACATACTTGATGGTGTCTGATGTTACAAAATTAACCTCATGTAAATCATGAGGGT - 5040
 - P T Y L D G A D V T K I K P H V N H E G
 - Q H T W M V L M L Q K L N L M * I M R V
 - N I L G W C * C Y K N * T S C K S * G *

FIG. 11 Con't

5041 - AAGACTTTCTTTGTACTACCTAGTGATGACACACTACGTAGTGAAGCTTTTCGAGTACTAC - 5100
 - K T F F V L P S D D T L R S E A F E Y Y
 - R L S L Y Y L V M T H Y V V K L S S T T
 - D F L C T T * * * H T T * * S F R V L P
 5101 - CATACTCTTGATGAGAGTTTTCTTGGTAGGTACATGTCTGCTTTAAACCACACAAAGAAA - 5160
 - H T L D E S F L G R Y M S A L N H T K K
 - I L L M R V F L V G T C L L * T T Q R N
 - Y S * * E F S W * V H V C F K P H K E M
 5161 - TGGAAATTTCTCAAGTTGGTGGTTAACTTCAATTAAATGGGCTGATAACAATTGTTAT - 5220
 - W K F P Q V G G L T S I K W A D N N C Y
 - G N F L K L V V * L Q L N G L I T I V I
 - E I S S S W W F N F N * M G * * Q L L F
 5221 - TTGTCTAGTGTTTTATTAGCACTTCAACAGCTTGAAGTCAAATTCAATGCACCAGCACTT - 5280
 - L S S V L L A L Q Q L E V K F N A P A L
 - C L V F Y * H F N S L K S N S M H Q H F
 - V * C F I S T S T A * S Q I Q C T S T S
 5281 - CAAGAGGCTTATTATAGAGCCCGTGCTGGTGATGCTGCTAACTTTTGTGCACTCATACTC - 5340
 - Q E A Y Y R A R A G D A A N F C A L I L
 - K R L I I E P V L V M L L T F V H S Y S
 - R G L L * S P C W * C C * L L C T H T R
 5341 - GCTTACAGTAATAAACTGTTGGCGAGCTTGGTGATGTGAGAGAACTATGACCCATCTT - 5400
 - A Y S N K T V G E L G D V R E T M T H L
 - L T V I K L L A S L V M S E K L * P I F
 - L Q * * N C W R A W * C Q R N Y D P S S
 5401 - CTACAGCATGCTAATTTGGAATCTGCAAAGCGAGTTCTTAATGTGGTGTGTAAACATTGT - 5460
 - L Q H A N L E S A K R V L N V V C K H C
 - Y S M L I W N L Q S E F L M W C V N I V
 - T A C * F G I C K A S S * C G V * T L W
 5461 - GGTCAGAAAACACTACTACCTTAACGGGTGTAGAAGCTGTGATGTATATGGGTACTCTATCT - 5520
 - G Q K T T T L T G V E A V M Y M G T L S
 - V R K L L P * R V * K L * C I W V L Y L
 - S E N Y Y L N G C R S C D V Y G Y S I L
 5521 - TATGATAATCTTAAGACAGGTGTTTCCATTCCATGTGTGTGTGGTTCGTGATGCTACACAA - 5580
 - Y D N L K T G V S I P C V C G R D A T Q
 - M I I L R Q V F P F H V C V V V M L H N
 - * * S * D R C F H S M C V W S * C Y T I
 5581 - TATCTAGTACAACAAGAGTCTTCTTTTGTATGATGTCTGCACCACCTGCTGAGTATAAA - 5640
 - Y L V Q Q E S S F V M M S A P A E Y K
 - I * Y N K S L L L L * C L H H L L S I N
 - S S T T R V F F C Y D V C T T C * V * I
 5641 - TTACAGCAAGGTACATTCTTATGTGCGAATGAGTACACTGGTAACTATCAGTGTGGTCAT - 5700
 - L Q Q G T F L C A N E Y T G N Y Q C G H
 - Y S K V H S Y V R M S T L V T I S V V I
 - T A R Y I L M C E * V H W * L S V W S L
 5701 - TACACTCATATAACTGCTAAGGAGACCCTCTATCGTATTGACGGAGCTCACCTTACAAAG - 5760
 - Y T H I T A K E T L Y R I D G A H L T K
 - T L I * L L R R P S I V L T E L T L Q R
 - H S Y N C * G D P L S Y * R S S P Y K D
 5761 - ATGTCAGAGTACAAAGGACAGTGACTGATGTTTTCTACAAGGAAACATCTTACACTACA - 5820
 - M S E Y K G P V T D V F Y K E T S Y T T
 - C Q S T K D Q * L M F S T R K H L T L Q
 - V R V Q R T S D * C F L Q G N I L H Y N
 5821 - ACCATCAAGCCTGTGTCGTATAAACTCGATGGAGTTACTTACACAGAGATTGAACCAAAA - 5880
 - T I K P V S Y K L D G V T Y T E I E P K
 - P S S L C R I N S M E L L T Q R L N Q N
 - H Q A C V V * T R W S Y L H R D * T K I

FIG. 11 Con't

5881 - TTGGATGGGTATTATAAAAAAGGATAATGCTTACTATACAGAGCAGCCTATAGACCTTGTA - 5940
 - L D G Y Y K K D N A Y Y T E Q P I D L V
 - W M G I I K R I M L T I Q S S L * T L Y
 - G W V L * K G * C L L Y R A A Y R P C T
 5941 - CCAACTCAACCATTACCAAATGCGAGTTTTGATAATTTCAAACCTCACATGTTCTAACACA - 6000
 - P T Q P L P N A S F D N F K L T C S N T
 - Q L N H Y Q M R V L I I S N S H V L T Q
 - N S T I T K C E F * * F Q T H M F * H K
 6001 - AAATTTGCTGATGATTTAAATCAAATGACAGGCTTCACAAAGCCAGCTTCACGAGAGCTA - 6060
 - K F A D D L N Q M T G F T K P A S R E L
 - N L L M I * I K * Q A S Q L H E S Y
 - I C * * F K S N D R L H K A S F T R A I
 6061 - TCTGTCACATTCTTCCCAGACTTGAATGGCGATGTAGTGGCTATTGACTATAGACACTAT - 6120
 - S V T F F P D L N G D V V A I D Y R H Y
 - L S H S S Q T * M A M * W L L T I D T I
 - C H I L P R L E W R C S G Y * L * T L F
 6121 - TCAGCGAGTTTCAAGAAAGGTGCTAAATTACTGCATAAGCCAATTGTTTGGCACATTAAC - 6180
 - S A S F K K G A K L L H K P I V W H I N
 - Q R V S R K V L N Y C I S Q L F G T L T
 - S E F Q E R C * I T A * A N C L A H * P
 6181 - CAGGCTACAACCAAGACAACGTTCAAACCAACACTTGGTGTTTACGTTGTCTTTGGAGT - 6240
 - Q A T T K T T F K P N T W C L R C L W S
 - R L Q P R Q R S N Q T L G V Y V V F G V
 - G Y N Q D N V Q T K H L V F T L S L E Y
 6241 - ACAAAGCCAGTAGATACTTCAAATTCATTGAAGTTCTGGCAGTAGAAGACACACAAGGA - 6300
 - T K P V D T S N S F E V L A V E D T Q G
 - Q S Q * I L Q I H L K F W Q * K T H K E
 - K A S R Y F K F I * S S G S R R H T R N
 6301 - ATGGACAATCTTGCTTGTGAAAGTCAACAACCCACCTCTGAAGAAGTAGTGGAAAATCCT - 6360
 - M D N L A C E S Q Q P T S E E V V E N P
 - W T I L L V K V N N P P L K K * W K I L
 - G Q S C L * K S T T H L * R S S G K S Y
 6361 - ACCATACAGAAGGAAGTCATAGAGTGTGACGTGAAAACCTACCGAAGTTGTAGGCAATGTC - 6420
 - T I Q K E V I E C D V K T T E V V G N V
 - P Y R R K S * S V T * K L P K L * A M S
 - H T E G S H R V * R E N Y R S C R Q C H
 6421 - ATACTTAAACCATCAGATGAAGGTGTTAAAGTAACACAAGAGTTAGGTCATGAGGATCTT - 6480
 - I L K P S D E G V K V T Q E L G H E D L
 - Y L N H Q M K V L K * H K S * V M R I L
 - T * T I R * R C * S N T R V R S * G S Y
 6481 - ATGGCTGCTTATGTGGAACACAAAGCATTACCATTAAAGAAACCTAATGAGCTTTCACTA - 6540
 - M A A Y V E N T S I T I K K P N E L S L
 - W L L M W K T Q A L P L R N L M S F H *
 - G C L C G K H K H Y H * E T * * A F T S
 6541 - GCCTTAGGTTTAAAAACAATTGCCACTCATGGTATTGCTGCAATTAATAGTGTTCCTTGG - 6600
 - A L G L K T I A T H G I A A I N S V P W
 - P * V * K Q L P L M V L L Q L I V F L G
 - L R F K N N C H S W Y C C N * * C S L E
 6601 - AGTAAATTTTGGCTTATGTCAAACCATCTTAGGACAAGCAGCAATTACAACATCAAAT - 6660
 - S K I L A Y V K P F L G Q A A I T T S N
 - V K F W L M S N H S * D K Q Q L Q H Q I
 - * N F G L C Q T I L R T S S N Y N I K L
 6661 - TGCCTAAGAGATTAGCACACGTGTGTTTAAACAATTATATGCCTTATGTGTTTACATTA - 6720
 - C A K R L A Q R V F N N Y M P Y V F T L
 - A L R D * H N V C L T I I C L M C L H Y
 - R * E I S T T C V * Q L Y A L C V Y I I

FIG. 11 Con't

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6721 - TTGTTCCAATTGTGTACTTTTACTAAAAGTACCAATTCTAGAATTAGAGCTTCACTACCT - 6780
- L F Q L C T F T K S T N S R I R A S L P
- C S N C V L L L K V P I L E L E L H Y L
- V P I V Y F Y * K Y Q F * N * S F T T Y
6781 - ACAACTATTGCTAAAAATAGTGTTAAGAGTGTGCTAAATTATGTTTGGATGCCGGCATT - 6840
- T T I A K N S V K S V A K L C L D A G I
- Q L L L K I V L R V L L N Y V W M P A L
- N Y C * K * C * E C C * I M F G C R H *
6841 - AATTATGTGAAGTCACCCAAATTTTCTAAATTGTTTACAATCGCTATGTGGCTATTGTTG - 6900
- N Y V K S P K F S K L F T I A M W L L L
- I M * S H P N F L N C S Q S L C G Y C C
- L C E V T Q I F * I V H N R Y V A I V V
6901 - TTAAGTATTTGCTTAGGTTCTCTAATCTGTGTAAGTCTGCTTTTGGTGTACTCTTATCT - 6960
- L S I C L G S L I C V T A A F G V L L S
- * V F A * V L * S V * L L L L V Y S Y L
- K Y L L R F S N L C N C C F W C T L I *
6961 - AATTTTGGTGCTCCTTCTTATTGTAATGGCGTTAGAGAAATTGTATCTTAATTCGTCTAAC - 7020
- N F G A P S Y C N G V R E L Y L N S S N
- I L V L L L I V M A L E N C I L I R L T
- F W C S F L L * W R * R I V S * F V * R
7021 - GTTACTACTATGGATTTCTGTGAAGGTTCTTTTCTTGTCAGCATTGTGTTAAGTGGATTA - 7080
- V T T M D F C E G S F P C S I C L S G L
- L L L W I S V K V L F L A A F V * V D *
- Y Y Y G F L * R F F S L Q H L F K W I R
7081 - GACTCCCTTGATTCTTATCCAGCTCTTGAAACCATTTCAGGTGACGATTTTCATCGTACAAG - 7140
- D S L D S Y P A L E T I Q V T I S S Y K
- T P L I L I Q L L K P F R * R F H R T S
- L P * F L S S S * N H S G D D F I V Q A
7141 - CTAGACTTGACAATTTTAGGTCTGGCCGCTGAGTGGGTTTTGGCATATATGTTGTTTACA - 7200
- L D L T I L G L A E W V L A Y M L F T
- * T * Q F * V W P L S G F W H I C C S Q
- R L D N F R S G R * V G F G I Y V V H K
7201 - AAATTCCTTTTATTTATTAGGTCTTTTCAGCTATAATGCAGGTGTTCTTTGGCTATTTTGCT - 7260
- K F F Y L L G L S A I M Q V F F G Y F A
- N S F I Y * V F Q L * C R C S L A I L L
- I L L F I R S F S Y N A G V L W L F C *
7261 - AGTCATTTTCATCAGCAATTCTTGGCTCATGTGTTTATCATTAGTATTGTACAAATGGCA - 7320
- S H F I S N S W L M W F I I S I V Q M A
- V I S S A I L G S C G L S L V L Y K W H
- S F H Q Q F L A H V V Y H * Y C T N G T
7321 - CCCGTTTCTGCAATGGTTAGGATGTACATCTTCTTTGCTTCTTTCTACTACATATGGAAG - 7380
- P V S A M V R M Y I F F A S F Y Y I W K
- P F L Q W L G C T S S L L L S T T Y G R
- R F C N G * D V H L L C F F L L H M E E
7381 - AGCTATGTTTCATATCATGGATGGTTGCACCTCTTCGACTTGCATGATGTGCTATAAGCGC - 7440
- S Y V H I M D G C T S S T C M M C Y K R
- A M F I S W M V A P L R L A * C A I S A
- L C S Y H G W L H L F D L H D V L * A Q
7441 - AATCGTGCCACACGCGTTGAGTGTACAATATTGTTAATGGCATGAAGAGATCTTTTCTAT - 7500
- N R A T R V E C T T I V N G M K R S F Y
- I V P H A L S V Q L L L M A * R D L S M
- S C H T R * V Y N Y C * W H E E I F L C
7501 - GTCTATGCAAATGGAGGCCGTGGCTTCTGCAAGACTACAATTGGAATTGTCTCAATTGT - 7560
- V Y A N G G R G F C K T H N W N C L N C
- S M Q M E A V A S A R L T I G I V S I V
- L C K W R P W L L Q D S Q L E L S Q L *

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FIG. 11 Con't

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7561 - GACACATTTTGCACCTGGTAGTACATTTCATTAGTGATGAAGTTGCTCGTGATTGTGCACTC - 7620
      - D T F C T G S T F I S D E V A R D L S L
      - T H F A L V V H S L V M K L L V I C H S
      - H I L H W * Y I H * * * S C S * F V T P
7621 - CAGTTTAAAAGACCAATCAACCCTACTGACCAGTCATCGTATATTGTTGATAGTGTGCT - 7680
      - Q F K R P I N P T D Q S S Y I V D S V A
      - S L K D Q S T L L T S H R I L L I V L L
      - V * K T N Q P Y * P V I V Y C * * C C C
7681 - GTGAAAAATGGCGCGCTTCACCTCTACTTTGACAAGGCTGGTCAAAAAGACCTATGAGAGA - 7740
      - V K N G A L H L Y F D K A G Q K T Y E R
      - * K M A R F T S T L T R L V K R P M R D
      - E K W R A S P L L * Q G W S K D L * E T
7741 - CATCCGCTCTCCCATTTTGTCAATTTAGACAATTTGAGAGCTAACAACACTAAAGGTTCA - 7800
      - H P L S H F V N L D N L R A N N T K G S
      - I R S P I L S I * T I * E L T T L K V H
      - S A L P F C Q F R Q F E S * Q H * R F T
7801 - CTGCCTATTAATGTCATAGTTTTTGATGGCAAGTCCAAATGCGACGAGTCTGCTTCTAAG - 7860
      - L P I N V I V F D G K S K C D E S A S K
      - C L L M S * F L M A S P N A T S L L L S
      - A Y * C H S F * W Q V Q M R R V C F * V
7861 - TCTGCTTCTGTACTACAGTCAGCTGATGTGCCAACCTATTCTGTTGCTTGACCAAGCT - 7920
      - S A S V Y Y S Q L M C Q P I L L L D Q A
      - L L L C T T V S * C A N L F C C L T K L
      - C F C V L Q S A D V P T Y S V A * P S S
7921 - CTTGTATCAAACGTTGGAGATAGTACTGAAGTTCCGTTAAGATGTTTGATGCTTATGTC - 7980
      - L V S N V G D S T E V S V K M F D A Y V
      - L Y Q T L E I V L K F P L R C L M L M S
      - C I K R W R * Y * S F R * D V * C L C R
7981 - GACACCTTTTCAGCAACTTTTAGTGTTCCATGGAACCTTAAGGCACTTGTGCTACA - 8040
      - D T F S A T F S V P M E K L K A L V A T
      - T P F Q Q L L V F L W K N L R H L L L Q
      - H L F S N F * C S Y G K T * G T C C Y S
8041 - GCTCACAGCGAGTTAGCAAAGGGTGTAGCTTTAGATGGTGTCTTTCTACATTTCGTGTCA - 8100
      - A H S E L A K G V A L D G V L S T F V S
      - L T A S * Q R V * L * M V S F L H S C Q
      - S Q R V S K G C S F R W C P F Y I R V S
8101 - GCTGCCCGACAAGGTGTTGTTGATACCGATGTTGACACAAAGGATGTTATTGAATGTCTC - 8160
      - A A R Q G V V D T D V D T K D V I E C L
      - L P D K V L L I P M L T Q R M L L N V S
      - C P T R C C * Y R C * H K G C Y * M S Q
8161 - AAACCTTTCACATCACTCTGACTTAGAAGTGACAGGTGACAGTTGTAACAATTTTCATGCTC - 8220
      - K L S H H S D L E V T G D S C N N F M L
      - N F H I T L T * K * Q V T V V T I S C S
      - T F T S L * L R S D R * Q L * Q F H A H
8221 - ACCTATAATAAGGTTGAAAACATGACGCCCAGAGATCTTGGCGCATGTATTGACTGTAAT - 8280
      - T Y N K V E N M T P R D L G A C I D C N
      - P I I R L K T * R P E I L A H V L T V M
      - L * * G * K H D A Q R S W R M Y * L * C
8281 - GCAAGGCATATCAATGCCCAAGTAGCAAAAAGTCACAATGTTTCACTCATCTGGAATGTA - 8340
      - A R H I N A Q V A K S H N V S L I W N V
      - Q G I S M P K * Q K V T M F H S S G M *
      - K A Y Q C P S S K K S Q C F T H L E C K
8341 - AAAGACTACATGTCTTTATCTGAACAGCTGCGTAAACAAATTCGTAAGTCTGCAAGAAG - 8400
      - K D Y M S L S E Q L R K Q I R T A A K K
      - K T T C L Y L N S C V N K F V L L P R R
      - R L H V F I * T A A * T N S Y C C Q E E

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FIG. 11 Con't

8401 - AACAAACATACCTTTTACACTAACTTGTGCTACAACCTAGACAGGTTGTCAATGTCATAACT - 8460
 - N N I P F T L T C A T T R Q V V N V I T
 - T T Y L L H * L V L Q L D R L S M S * L
 - Q H T F Y T N L C Y N * T G C Q C H N Y
 8461 - ACTAAAATCTCACTCAAGGGTGGTAAGATTGTTAGTACTTGTTTTAACTTATGCTTAAG - 8520
 - T K I S L K G G K I V S T C F K L M L K
 - L K S H S R V V R L L V L V L N L C L R
 - * N L T Q G W * D C * Y L F * T Y A * G
 8521 - GCCACATTATTGTGCGTTCTTGCTGCATTGGTTTGTATATCGTTATGCCAGTACATACA - 8580
 - A T L L C V L A A L V C Y I V M P V H T
 - P H Y C A F L L H W F V I S L C Q Y I H
 - H I I V R S C C I G L L Y R Y A S T Y I
 8581 - TTGTCAATCCATGATGGTTACACAAATGAAATCATTGGTTACAAAGCCATTACAGGATGGT - 8640
 - L S I H D G Y T N E I I G Y K A I Q D G
 - C Q S M M V T Q M K S L V T K P F R M V
 - V N P * W L H K * N H W L Q S H S G W C
 8641 - GTCACCTCGTGACATCATTTCTACTGATGATTGTTTGTCAAATAAACATGCTGGTTTTGAC - 8700
 - V T R D I I S T D D C F A N K H A G F D
 - S L V T S F L L M I V L Q I N M L V L T
 - H S * H H F Y * * L F C K * T C W F * R
 8701 - GCATGGTTTAGCCAGCGTGGTTCATACAAAATGACAAAAGCTGCCCTGTAGTAGCT - 8760
 - A W F S Q R G G S Y K N D K S C P V V A
 - H G L A S V V V H T K M T K A A L * * L
 - M V * P A W W F I Q K * Q K L P C S S C
 8761 - GCTATCATTACAAGAGAGATTGGTTTCATAGTGCCTGGCTTACCGGGTACTGTGCTGAGA - 8820
 - A I I T R E I G F I V P G L P G T V L R
 - L S L Q E R L V S * C L A Y R V L C * E
 - Y H Y K R D W F H S A W L T G Y C A E S
 8821 - GCAATCAATGGTGACTTCTTGCATTTTCTACCTCGTGTTTTTAGTGCTGTTGGCAACATT - 8880
 - A I N G D F L H F L P R V F S A V G N I
 - Q S M V T S C I F Y L V F L V L L A T F
 - N Q W * L L A F S T S C F * C C W Q H L
 8881 - TGCTACACACCTTCCAAACTCATTGAGTATAGTGATTTTGCTACCTCTGCTTGCCTTCTT - 8940
 - C Y T P S K L I E Y S D F A T S A C V L
 - A T H L P N S L S I V I L L P L L A F L
 - L H T F Q T H * V * * F C Y L C L R S C
 8941 - GCTGCTGAGTGTAACAATTTTAAAGGATGCTATGGGCAAACCTGTGCCATATTGTTATGAC - 9000
 - A A E C T I F K D A M G K P V P Y C Y D
 - L L S V Q F L R M L W A N L C H I V M T
 - C * S V Y N F * G C Y G Q T C A I L L * H
 9001 - ACTAATTTGCTAGAGGGTCTATTTCTTATAGTGAGCTTCGTCCAGACACTCGTTATGTG - 9060
 - T N L L E G S I S Y S E L R P D T R Y V
 - L I C * R V L F L I V S F V Q T L V M C
 - * F A R G F Y F L * * A S S R H S L C A
 9061 - CTTATGGATGGTTCCATCATACAGTTTCCTAACACTTACCTGGAGGGTTCTGTTAGAGTA - 9120
 - L M D G S I I Q F P N T Y L E G S V R V
 - L W M V P S Y S F L T L T W R V L L E *
 - Y G W F H H T V S * H L P G G F C * S S
 9121 - GTAACAACTTTTGATGCTGAGTACTGTAGACATGGTACATGCGAAAGGTCAGAAGTAGGT - 9180
 - V T T F D A E Y C R H G T C E R S E V G
 - * Q L L M L S T V D M V H A K G Q K * V
 - N N F * C * V L * T W Y M R K V R S R Y
 9181 - ATTTGCCTATCTACCAGTGGTAGATGGGTTCTTAATAATGAGCATTACAGAGCTCTATCA - 9240
 - I C L S T S G R W V L N N E H Y R A L S
 - F A Y L P V V D G F L I M S I T E L Y Q
 - L P I Y Q W * M G S * * * A L Q S S I R

FIG. 11 Con't

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9241 - GGAGTTTTCTGTGGTGTGATGCGATGAATCTCATAGCTAACATCTTTACTCCTCTTGTG - 9300
- G V F C G V D A M N L I A N I F T P L V
- E F S V V L M R * I S * L T S L L L L C
- S F L W C * C D E S H S * H L Y S S C A
9301 - CAACCTGTGGGTGCTTTAGATGTGTCTGCTTCAGTAGTGGCTGGTGGTATTATTGCCATA - 9360
- Q P V G A L D V S A S V V A G G I I A I
- N L W V L * M C L L Q * W L V V L L P Y
- T C G C F R C V C F S S G W W Y Y C H I
9361 - TTGGTGA CTGTGCTGCCTACTACTTTATGAAATTCAGACGTGTTTTGGTGAGTACAAC - 9420
- L V T C A A Y Y F M K F R R V F G E Y N
- W * L V L P T T L * N S D V F L V S T T
- G D L C C L L L Y E I Q T C F W * V Q P
9421 - CATGTTGTTGCTGCTAATGCAC TTTTGT TTTTGTGATGTCTTTCACTATACTCTGTCTGGTA - 9480
- H V V A A N A L L F L M S F T I L C L V
- M L L L L M H F C F * C L S L Y S V W Y
- C C C C * C T F V F D V F H Y T L S G T
9481 - CCAGCTTACAGCTTTCTGCCGGGAGTCTACTCAGTCTTTTACTTGTACTTGACATTCTAT - 9540
- P A Y S F L P G V Y S V F Y L Y L T F Y
- Q L T A F C R E S T Q S F T C T * H S I
- S L Q L S A G S L L S L L L V L D I L F
9541 - TTCACCAATGATGTTTCATTCTTGGCTCACCTTCAATGGTTTGGCATGTTTTCTCCTATT - 9600
- F T N D V S F L A H L Q W F A M F S P I
- S P M M F H S W L T F N G L P C F L L L
- H Q * C F I L G S P S M V C H V F S Y C
9601 - GTGCCTTTTTGGATAACAGCAATCTATGTATTCTGTATTTCTCTGAAGCACTGCCATTGG - 9660
- V P F W I T A I Y V F C I S L K H C H W
- C L F G * Q Q S M Y S V F L * S T A I G
- A F L D N S N L C I L Y F S E A L P L V
9661 - TTCTTTAACA ACTATCTTAGGAAAAGAGTCATGTTTAA TGGAGTTACATTAGTACCTTC - 9720
- F F N N Y L R K R V M F N G V T F S T F
- S L T T I L G K E S C L M E L H L V P S
- L * Q L S * E K S H V * W S Y I * Y L R
9721 - GAGGAGGCTGCTTTGTGTACCTTTTGTCTCAACAAGGAAATGTACCTAAAATTGCGTAGC - 9780
- E E A A L C T F L L N K E M Y L K L R S
- R R L L C V P F C S T R K C T * N C V A
- G G C F V Y L F A Q Q G N V P K I A * R
9781 - GAGACACTGTTGCCACTTACACAGTATAACAGGTATCTTGCTCTATATAACAAGTACAAG - 9840
- E T L L P L T Q Y N R Y L A L Y N K Y K
- R H C C H L H S I T G I L L Y I T S T S
- D T V A T Y T V * Q V S C S I * Q V Q V
9841 - TATTTCACTGGAGCCTTAGATACTACCAGCTATCGTGAAGCAGCTTGCTGCCACTTAGCA - 9900
- Y F S G A L D T T S Y R E A A C C H L A
- I S V E P * I L P A I V K Q L A A T * Q
- F Q W S L R Y Y Q L S * S S L L P L S K
9901 - AAGGCTCTAAATGACTTTAGCAACTCAGGTGCTGATGTTCTCTACCAACCACCACAGACA - 9960
- K A L N D F S N S G A D V L Y Q P P Q T
- R L * M T L A T Q V L M F S T N H R H
- G S K * L * Q L R C * C S L P T T T D I
9961 - TCAATCACTTCTGCTGTTCTGCAGAGTGGTTTTAGGAAAATGGCATTCCTCGTCAGGCAAA - 10020
- S I T S A V L Q S G F R K M A F P S G K
- Q S L L L F C R V V L G K W H S R Q A K
- N H F C C S A E W F * E N G I P V R Q S
10021 - GTTGAAGGGTGCATGGTACAAGTAACCTGTGGA ACTACA ACTCTTAATGGATTGTGGTTG - 10080
- V E G C M V Q V T C G T T T L N G L W L
- L K G A W Y K * P V E L Q L L M D C G W
- * R V H G T S N L W N Y N S * W I V V G

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FIG. 11 Con't

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10081 - GATGACACAGTATACTGTCCAAGACATGTCATTGTCACAGCAGAAGACATGCTTAATCCT - 10140
- D D T V Y C P R H V I C T A E D M L N P
- M T Q Y T V Q D M S F A Q Q K T C L I L
- * H S I L S K T C H L H S R R H A * S *
10141 - AACTATGAAGATCTGCTCATTGCGAAATCCAACCATAGCTTTCTTGTTGAGGCTGGCAAT - 10200
- N Y E D L L I R K S N H S F L V Q A G N
- T M K I C S F A N P T I A F L F R L A M
- L * R S A H S Q I Q P * L S C S G W Q C
10201 - GTTCAACTTCGTGTTATTGGCCATTCTATGCAAAATTGTCTGCTTAGGCTTAAAGTTGAT - 10260
- V Q L R V I G H S M Q N C L L R L K V D
- F N F V L L A I L C K I V C L G L K L I
- S T S C Y W P F Y A K L S A * A * S * Y
10261 - ACTTCTAACCCTAAGACACCCAAGTATAAAATTTGTCCGTATCCAACCTGGTCAAACATTT - 10320
- T S N P K T P K Y K F V R I Q P G Q T F
- L L T L R H P S I N L S V S N L V K H F
- F * P * D T Q V * I C P Y P T W S N I F
10321 - TCAGTTCTAGCATGCTACAATGGTTCCACATCTGGTGTATCAGTGTGCCATGAGACCT - 10380
- S V L A C Y N G S P S G V Y Q C A M R P
- Q F * H A T M V H H L V F I S V P * D L
- S S S M L Q W F T I W C L S V C H E T *
10381 - AATCATACCATTAAAGGTTCTTTCTTAATGGATCATGTGGTAGTGTTGGTTTAAACATT - 10440
- N H T I K G S F L N G S C G S V G F N I
- I I P L K V L S L M D H V V V L V L T L
- S Y H * R F F P * W I M W * C W F * H *
10441 - GATTATGATTGCGTGTCTTTCTGCTATATGCATCATATGGAGCTTCCAACAGGAGTACAC - 10500
- D Y D C V S F C Y M H H M E L P T G V H
- I M I A C L S A I C I I W S F Q Q E Y T
- L * L R V F L L Y A S Y G A S N R S T R
10501 - GCTGGTACTGACTTAGAAGGTAAATTCTATGGTCCATTTGTTGACAGACAACTGCACAG - 10560
- A G T D L E G K F Y G P F V D R Q T A Q
- L V L T * K V N S M V H L L T D K L H R
- W Y * L R R * I L W S I C * Q T N C T G
10561 - GCTGCAGGTACAGACACAACCATAACATTAAATGTTTTGGCATGGCTGTATGCTGCTGTT - 10620
- A A G T D T T I T L N V L A W L Y A A V
- L Q V Q T Q P * H * M F W H G C M L L L
- C R Y R H N H N I K C F G M A V C C C Y
10621 - ATCAATGGTGATAGGTGGTTTCTTAATAGATTCCACTACTTTGAATGACTTTAACCTT - 10680
- I N G D R W F L N R F T T T L N D F N L
- S M V I G G F L I D S P L L * M T L T L
- Q W * * V V S * * I H H Y F E * L * P C
10681 - GTGGCAATGAAGTACAACCTATGAACCTTTGACACAAGATCATGTTGACATATTGGGACCT - 10740
- V A M K Y N Y E P L T Q D H V D I L G P
- W Q * S T T M N L * H K I M L T Y W D L
- G N E V Q L * T F D T R S C * H I G T S
10741 - CTTTCTGCTCAAACAGGAATTGCCGTCTTAGATATGTGTGCTGCTTTGAAAGAGCTGCTG - 10800
- L S A Q T G I A V L D M C A A L K E L L
- F L L K Q E L P S * I C V L L * K S C C
- F C S N R N C R L R Y V C C F E R A A A
10801 - CAGAATGGTATGAATGGTCGTACTATCCTTGGTAGCACTATTTTAGAAGATGAGTTTACA - 10860
- Q N G M N G R T I L G S T I L E D E F T
- R M V * M V V L S L V A L F * K M S L H
- E W Y E W S Y Y P W * H Y F R R * V Y T
10861 - CCATTTGATGTTGTTAGACAATGCTCTGGTGTACCTTCCAAGGTAAGTTCAAGAAAATT - 10920
- P F D V V R Q C S G V T F Q G K F K K I
- H L M L L D N A L V L P S K V S S R K L
- I * C C * T M L W C Y L P R * V Q E N C

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FIG. 11 Con't

10921 - GTTAAGGGCACTCATCATTGGATGCTTTTAACTTTCTTGACATCACTATTGATTCTTGT - 10980
 - V K G T H H W M L L T F L T S L L I L V
 - L R A L I I G C F * L S * H H Y * F L F
 - * G H S S L D A F N F L D I T I D S C S
 10981 - CAAAGTACACAGTGGTCACTGTTTTCTTTGTTTACGAGAATGCTTTCTTGCCATTTACT - 11040
 - Q S T Q W S L F F F V Y E N A F L P F T
 - K V H S G H C F S L F T R M L S C H L L
 - K Y T V V T V F L C L R E C F L A I Y S
 11041 - CTTGGTATTATGGCAATTGCTGCATGTGCTATGCTGCTTGTGAAGCATAAGCACGCATTC - 11100
 - L G I M A I A A C A M L L V K H K H A F
 - L V L W Q L L H V L C C L L S I S T H S
 - W Y Y G N C C M C Y A A C * A * A R I L
 11101 - TTGTGCTTGTCTTCTGTTACCTTCTCTTGCAACAGTTGCTTACTTTAATATGGTCTACATG - 11160
 - L C L F L L P S L A T V A Y F N M V Y M
 - C A C F C Y L L L Q Q L L T L I W S T C
 - V L V S V T F S C N S C L L * Y G L H A
 11161 - CCTGCTAGCTGGGTGATGCGTATCATGACATGGCTTGAATTGGCTGACACTAGCTTGTCT - 11220
 - P A S W V M R I M T W L E L A D T S L S
 - L L A G * C V S * H G L N W L T L A C L
 - C * L G D A Y H D M A * I G * H * L V W
 11221 - GGTTATAGGCTTAAGGATTGTGTTATGTATGCTTCAGCTTTAGTTTTGCTTATTCTCATG - 11280
 - G Y R L K D C V M Y A S A L V L L I L M
 - V I G L R I V L C M L Q L * F C L F S *
 - L * A * G L C Y V C F S F S F A Y S H D
 11281 - ACAGCTCGCACTGTTTATGATGATGCTGCTAGACGTGTTTGGACACTGATGAATGTCATT - 11340
 - T A R T V Y D D A A R R V W T L M N V I
 - Q L A L F M M M L L D V F G H * * M S L
 - S S H C L * * C C * T C L D T D E C H Y
 11341 - ACACTTGTTTACAAAGTCTACTATGGTAATGCTTTAGATCAAGCTATTTCCATGTGGGCC - 11400
 - T L V Y K V Y Y G N A L D Q A I S M W A
 - H L F T K S T M V M L * I K L F P C G P
 - T C L Q S L L W * C F R S S Y F H V G L
 11401 - TTAGTTATTTCTGTAACCTCTAACTATTCTGGTGTGCTTACGACTATCATGTTTTAGCT - 11460
 - L V I S V T S N Y S G V V T T I M F L A
 - * L F L * P L T I L V S L R L S C F * L
 - S Y F C N L * L F W C R Y D Y H V F S *
 11461 - AGAGCTATAGTGTGTTGTGTGTTGAGTATTACCCATTGTTATTTACTGGCAACACC - 11520
 - R A I V F V C V E Y Y P L L F I T G N T
 - E L * C L C V L S I T H C Y L L L A T P
 - S Y S V C V C * V L P I V I Y Y W Q H L
 11521 - TTACAGTGATCATGCTTGTGTTATTGTTTCTTAGGCTATTGTTGCTGCTGCTACTTTGGC - 11580
 - L Q C I M L V Y C F L G Y C C C C Y F G
 - Y S V S C L F I V S * A I V A A A T L A
 - T V Y H A C L L F L R L L L L L L W P
 11581 - CTTTCTGTTTACTCAACCGTTACTTCAGGCTTACTCTTGGTGTTTATGACTACTTGGTC - 11640
 - L F C L L N R Y F R L T L G V Y D Y L V
 - F S V Y S T V T S G L L V F M T T W S
 - F L F T Q P L L Q A Y S W C L * L L G L
 11641 - TCTACACAAGAATTTAGGTATATGAACTCCAGGGGCTTTTGCCTCCTAAGAGTAGTATT - 11700
 - S T Q E F R Y M N S Q G L L P P K S S I
 - L H K N L G I * T P R G F C L L R V V L
 - Y T R I * V Y E L P G A F A S * E * Y *
 11701 - GATGCTTTCAAGCTTAACATTAAGTTGTTGGGTATTGGAGGTAAACCATGTATCAAGGTT - 11760
 - D A F K L N I K L L G I G G K P C I K V
 - M L S S L T L S C W V L E V N H V S R L
 - C F Q A * H * V V G Y W R * T M Y Q G C

FIG. 11 Con't

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11761 - GCTACTGTACAGTCTAAAATGTCTGACGTAAAGTGCACATCTGTGGTACTGCTCTCGGTT - 11820
- A T V Q S K M S D V K C T S V V L L S V
- L L Y S L K C L T * S A H L W Y C S R F
- Y C T V * N V * R K V H I C G T A L G S
11821 - CTTCAACAACCTTAGAGTAGAGTCATCTTCTAAATTGTGGGCACAATGTGTACAACCTCCAC - 11880
- L Q Q L R V E S S S K L W A Q C V Q L H
- F N N L E * S H L L N C G H N V Y N S T
- S T T * S R V I F * I V G T M C T T P Q
11881 - AATGATATTCTTCTTGCAAAAGACACAACCTGAAGCTTTCGAGAAGATGGTTTCTCTTTTG - 11940
- N D I L L A K D T T E A F E K M V S L L
- M I F F L Q K R T Q L K L S R R W F L F C
- * Y S S C K R H N * S F R E D G F S F V
11941 - TCTGTTTTGCTATCCATGCAGGGTGCTGTAGACATTAATAGGTTGTGCGAGGAAATGCTC - 12000
- S V L L S M Q G A V D I N R L C E E M L
- L F C Y P C R V L * T L I G C A R K C S
- C F A I H A G C C R H * * V V R G N A R
12001 - GATAACCGTGCTACTCTTCAGGCTATTGCTTCAGAATTTAGTTCTTTACCATCATATGCC - 12060
- D N R A T L Q A I A S E F S S L P S Y A
- I T V L L F R L L L Q N L V L Y H H M P
- * P C Y S S G Y C F R I * F F T I I C R
12061 - GCTTATGCCATGCCAGGAGGCTATGAGCAGGCTGTAGCTAATGGTGAATTCTGAAGTC - 12120
- A Y A T A Q E A Y E Q A V A N G D S E V
- L M P L P R R P M S R L * L M V I L K S
- L C H C P G G L * A G C S * W * F * S R
12121 - GTTCTCAAAAAGTTAAAGAAATCTTTGAATGTGGCTAAATCTGAGTTTGACCGTGATGCT - 12180
- V L K K L K K S L N V A K S E F D R D A
- F S K S * R N L * M W L N L S L T V M L
- S Q K V K E I F E C G * I * V * P * C C
12181 - GCCATGCAACGCAAGTTGGAAGATGGCAGATCAGGCTATGACCCAAATGTACAAACAG - 12240
- A M Q R K L E K M A D Q A M T Q M Y K Q
- P C N A S W K R W Q I R L * P K C T N R
- H A T Q V G K D G R S G Y D P N V Q T G
12241 - GCAAGATCTGAGGACAAGAGGGCAAAAGTAAGTGTGCTATGCAACAATGCTCTTCACT - 12300
- A R S E D K R A K V T S A M Q T M L F T
- Q D L R T R G Q K * L V L C K Q C S S L
- K I * G Q E G K S N * C Y A N N A L H Y
12301 - ATGCTTAGGAAGCTTGATAATGATGCACTTAACAACATTATCAACAATGCGCGTGATGGT - 12360
- M L R K L D N D A L N N I I N N A R D G
- C L G S L I M M H L T T L S T M R V M V
- A * E A * * C T * Q H Y Q Q C A * W L
12361 - TGTGTTCCACTCAACATCATACCATTGACTACAGCAGCCAAACTCATGGTTGTTGTCCCT - 12420
- C V P L N I I P L T T A A K L M V V V P
- V F H S T S Y H * L Q Q P N S W L L S L
- C S T Q H H T I D Y S S Q T H G C C P *
12421 - GATTATGGTACCTACAAGAACTTGTGATGGTAACACCTTTACATATGCATCTGCACTC - 12480
- D Y G T Y K N T C D G N T F T Y A S A L
- I M V P T R T L V M V T P L H M H L H S
- L W Y L Q E H L * W * H L Y I C I C T L
12481 - TGGGAAATCCAGCAAGTTGTTGATGCGGATAGCAAGATTGTTCAACTTAGTGAAATTAAC - 12540
- W E I Q Q V V D A D S K I V Q L S E I N
- G K S S K L L M R I A R L F N L V K L T
- G N P A S C * C G * Q D C S T * * N * H
12541 - ATGGACAATTCACCAAAATTGGCTTGGCCTCTTATTGTTACAGCTCTAAGAGCCAACTCA - 12600
- M D N S P N L A W P L I V T A L R A N S
- W T I H Q I W L G L L L L Q L * E P T Q
- G Q F T K F G L A S Y C Y S S K S Q L S

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FIG. 11 Con't

12601 - GCTGTTAAACTACAGAATAATGAAGTCCAGTAGCACTACGACAGATGTCCTGTGCG - 12660
 - A V K L Q N N E L S P V A L R Q M S C A
 - L L N Y R I M N * V Q * H Y D R C P V R
 - C * T T E * * T E S S S T T T D V L C G
 12661 - GCTGGTACCACACAAACAGCTTGTACTGATGACAATGCACTGCCTACTATAACAATTG - 12720
 - A G T T Q T A C T D D N A L A Y Y N N S
 - L V P H K Q L V L M T M H L P T I T I R
 - W Y H T N S L Y * * Q C T C L L * Q F E
 12721 - AAGGGAGGTAGGTTTGTGCTGGCATTACTATCAGACCACCAAGATCTCAAATGGGCTAGA - 12780
 - K G G R F V L A L L S D H Q D L K W A R
 - R E V G L C W H Y Y Q T T K I S N G L D
 - G R * V C A G I T I R P P R S Q M G * I
 12781 - TTCCCTAAGAGTGATGGTACAGGTACAATTTACACAGAACTGGAACCACCTTGTAGGTTT - 12840
 - F P K S D G T G T I Y T E L E P P C R F
 - S L R V M V Q V Q F T Q N W N H L V G L
 - P * E * W Y R Y N L H R T G T T L * V C
 12841 - GTTACAGACACACCAAAAGGGCCTAAAGTGAAATACTTGTACTTCATCAAAGGCTTAAAC - 12900
 - V T D T P K G P K V K Y L Y F I K G L N
 - L Q T H Q K G L K * N T C T S S K A * T
 - Y R H T K R A * S E I L V L H Q R L K Q
 12901 - AACCTAAATAGAGGTATGGTGTGGGAGTTTGTACTGCTACAGTACGTCTTCAGGCTGGA - 12960
 - N L N R G M V L G S L A A T V R L Q A G
 - T * I E V W C W A V * L L Q Y V F R L E
 - P K * R Y G A G Q F S C Y S T S S G W K
 12961 - AATGCTACAGAAGTACCTGCCAATTCAACTGTGCTTTCCTTCTGTGCTTTTGCAGTAGAC - 13020
 - N A T E V P A N S T V L S F C A F A V D
 - M L Q K Y L P I Q L C F P S V L L Q * T
 - C Y R S T C Q F N C A F L L C F C S R P
 13021 - CCTGCTAAAGCATATAAGGATTACCTAGCAAGTGGAGGACAACCAATCACCAACTGTGTG - 13080
 - P A K A Y K D Y L A S G G Q P I T N C V
 - L L K H I R I T * Q V E D N Q S P T V *
 - C * S I * G L P S K W R T T N H Q L C E
 13081 - AAGATGTTGTGTACACACACTGGTACAGGACAGGCAATTACTGTAACACCAGAAGCTAAC - 13140
 - K M L C T H T G T G Q A I T V T P E A N
 - R C C V H T L V Q D R Q L L * H Q K L T
 - D V V Y T H W Y R T G N Y C N T R S * H
 13141 - ATGGACCAAGAGTCCTTTGGTGGTGTCTCATGTTGTCTGTATTGTAGATGCCACATTGAC - 13200
 - M D Q E S F G G A S C C L Y C R C H I D
 - W T K S P L V V L H V V C I V D A T L T
 - G P R V L W W C F M L S V L * M P H * P
 13201 - CATCCAAATCCTAAAGGATTCTGTGACTTGAAAGGTAAGTACGTCCAAATACCTACCACT - 13260
 - H P N P K G F C D L K G K Y V Q I P T T
 - I Q I L K D S V T * K V S T S K Y L P L
 - S K S * R I L * L E R * V R P N T Y H L
 13261 - TGTGCTAATGACCCAGTGGGTTTTACACTTAGAAACACAGTCTGTACCGTCTGCGGAATG - 13320
 - C A N D P V G F T L R N T V C T V C G M
 - V L M T Q W V L H L E T Q S V P S A E C
 - C * * P S G F Y T * K H S L Y R L R N V
 13321 - TGGAAAGGTTATGGCTGTAGTTGTGACCAACTCCGCGAACCCTTGATGCAGTCTGCGGAT - 13380
 - W K G Y G C S C D Q L R E P L M Q S A D
 - G K V M A V V V T N S A N P * C S L R M
 - E R L W L * L * P T P R T L D A V C G C
 13381 - GCATCAACGTTTTTAAACGGGTTTTCGGGTGTAAGTGCAGCCCGTCTTACACCGTGCGGCA - 13440
 - A S T F L N G F A V * V Q P V L H R A A
 - H Q R F * T G L R C K C S P S Y T V R H
 - I N V F K R V C G V S A A R L T P C G T

FIG. 11 Con't

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13441 - CAGGCACTAGTACTGATGTCGCTCTACAGGGCTTTTGATATTTACAACGAAAAAGTGCTG - 13500
- Q A L V L M S S T G L L I F T T K K V L
- R H * Y * C R L Q G F * Y L Q R K K C W
- G T S T D V V Y R A F D I Y N E K S A G
13501 - GTTTTGCAAAGTTCCTAAAACTAATTGCTGTCGCTTCCAGGAGAAGGATGAGGAAGGCA - 13560
- V L Q S S * K L I A V A S R R R M R K A
- F C K V P K N * L L S L P G E G * G R Q
- F A K F L K T N C C R F Q E K D E E G N
13561 - ATTTATTAGACTCTTACTTTGTAGTTAAGAGGCATACTATGTCTAACTACCAACATGAAG - 13620
- I Y * T L T L * L R G I L C L T T N M K
- F I R L L L C S * E A Y Y V * L P T * R
- L L D S Y F V V K R H T M S N Y Q H E E
13621 - AGACTATTTATAACTTGGTTAAAGATTGTCCAGCGGTTGCTGTCCATGACTTTTTCAAGT - 13680
- R L F I T W L K I V Q R L L S M T F S S
- D Y L * L G * R L S S G C C P * L F Q V
- T I Y N L V K D C P A V A V H D F F K F
13681 - TTAGAGTAGATGGTGACATGGTACCACATATATCACGTCAGCGTCTAACTAAATACACAA - 13740
- L E * M V T W Y H I Y H V S V * L N T Q
- * S R W * H G T T Y I T S A S N * I H N
- R V D G D M V P H I S R Q R L T K Y T M
13741 - TGGCTGATTTAGTCTATGCTCTACGTCATTTTGATGAGGGTAATTGTGATACATTAAAAAG - 13800
- W L I * S M L Y V I L M R V I V I H * K
- G * F S L C S T S F * * G * L * Y I K R
- A D L V Y A L R H F D E G N C D T L K E
13801 - AAATACTCGTCACATACAATTGCTGTGATGATGATTATTTCAATAAGAAGGATTGGTATG - 13860
- K Y S S H T I A V M M I I S I R R I G M
- N T R H I Q L L * * * L F Q * E G L V *
- I L V T Y N C C D D D Y F N K K D W Y D
13861 - ACTTCGTAGAGAATCCTGACATCTTACGCGTATATGCTAACTTAGGTGAGCGTGACGCC - 13920
- T S * R I L T S Y A Y M L T * V S V Y A
- L R R E S * H L T R I C * L R * A C T P
- F V E N P D I L R V Y A N L G E R V R Q
13921 - AATCATTATTAAGACTGTACAATTCTGCGATGCTATGCGTGATGCAGGCATTGTAGGCG - 13980
- N H Y * R L Y N S A M L C V M Q A L * A
- I I I K D C T I L R C Y A * C R H C R R
- S L L K T V Q F C D A M R D A G I V G V
13981 - TACTGACATTAGATAATCAGGATCTTAATGGGAAGTGGTACGATTTCGGTGATTTCGTAC - 14040
- Y * H * I I R I L M G T G T I S V I S Y
- T D I R * S G S * W E L V R F R * F R T
- L T L D N Q D L N G N W Y D F G D F V Q
14041 - AAGTAGCACCAGGCTGCGGAGTTCCTATTGTGGATTATTAATTACTCATTGCTGATGCCCA - 14100
- K * H Q A A E F L L W I H I T H C * C P
- S S T R L R S S Y C G F I L L I A D A H
- V A P G C G V P I V D S Y Y S L L M P I
14101 - TCCTCACTTTGACTAGGGCATTGGCTGCTGAGTCCCATATGGATGCTGATCTCGCAAAC - 14160
- S S L * L G H W L L S P I W M L I S Q N
- P H F D * G I G C * V P Y G C * S R K T
- L T L T R A L A E S H M D A D L A K P
14161 - CACTTATTAAGTGGGATTTGCTGAAATATGATTTTACGGAAGAGAGACTTTGTCTCTTCG - 14220
- H L L S G I C * N M I L R K R D F V S S
- T Y * V G F A E I * F Y G R E T L S L R
- L I K W D L L K Y D F T E E R L C L F D
14221 - ACCGTTATTTTAAATATTGGGACCAGACATACCATCCCAATTGTATTAAGTGTGGATG - 14280
- T V I L N I G T R H T I P I V L T V W M
- P L F * I L G P D I P S Q L Y * L F G *
- R Y F K Y W D Q T Y H P N C I N C L D D

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FIG. 11 Con't

14281 - ATAGGTGTATCCTTCATTGTGCAAACTTTAATGTGTTATTTTCTACTGTGTTTCCACCTA - 14340
 - I G V S F I V Q T L M C Y F L L C F H L
 - * V Y P S L C K L * C V I F Y C V S T Y
 - R C I L H C A N F N V L F S T V F P P T
 14341 - CAAGTTTTGGACCACTAGTAAGAAAAATATTTGTAGATGGTGTTCCTTTTGTGTTTCAA - 14400
 - Q V L D H * * E K Y L * M V F L L L F Q
 - K F W T T S K K N I C R W C S F C C F N
 - S F G P L V R K I F V D G V P F V V S T
 14401 - CTGGATACCATTTTCGTGAGTTAGGAGTCGTACATAATCAGGATGTAACTTACATAGCT - 14460
 - L D T I F V S * E S Y I I R M * T Y I A
 - W I P F S * V R S R T * S G C K L T * L
 - G Y H F R E L G V V H N Q D V N L H S S
 14461 - CGCGTCTCAGTTTCAAGGAACTTTGTAGTGTGCTGCTGATCCAGCTATGCATGCAGCTT - 14520
 - R V S V S R N F * C M L L I Q L C M Q L
 - A S Q F Q G T F S V C C * S S Y A C S F
 - R L S F K E L L V Y A A D P A M H A A S
 14521 - CTGGCAATTTATTGCTAGATAAACGCACTACATGCTTTTTCAGTAGCTGCACTAACAAACA - 14580
 - L A I Y C * I N A L H A F Q * L H * Q T
 - W Q F I A R * T H Y M L F S S C T N K Q
 - G N L L L D K R T T C F S V A A L T N N
 14581 - ATGTTGCTTTTCAAACGTCAAACCCGGTAATTTTAATAAAGACTTTTATGACTTTGCTG - 14640
 - M L L F K L S N P V I L I K T F M T L L
 - C C F S N C Q T R * F * * R L L * L C C
 - V A F Q T V K P G N F N K D F Y D F A V
 14641 - TGTCTAAAGGTTTCTTTAAGGAAGGAAGTTCTGTTGAACTAAAACACTTCTTCTTTGCTC - 14700
 - C L K V S L R K E V L L N * N T S S L L
 - V * R F L * G R K F C * T K T L L L C S
 - S K G F F K E G S S V E L K H F F C A Q
 14701 - AGGATGGCAACGCTGCTATCAGTGATTATGACTATTATCGTTATAATCTGCCAACAATGT - 14760
 - R M A T L L S V I M T I I V I I C Q Q C
 - G W Q R C Y Q * L * L L S L * S A N N V
 - D G N A A I S D Y D Y Y R Y N L P T M C
 14761 - GTGATATCAGACAACCTCTATTTCGTAGTTGAAGTTGTTGATAAATACTTTGATTGTTACG - 14820
 - V I S D N S Y S * L K L L I N T L I V T
 - * Y Q T T P I R S * S C * * I L * L L R
 - D I R Q L L F V V E V V D K Y F D C Y D
 14821 - ATGGTGGCTGTATTAATGCCAACCAAGTAATCGTTAACAATCTGGATAAATCAGCTGGTT - 14880
 - M V A V L M P T K * S L T I W I N Q L V
 - W W L Y * C Q P S N R * Q S G * I S W F
 - G G C I N A N Q V I V N N L D K S A G F
 14881 - TCCCATTAAATAAATGGGGTAAGGCTAGACTTTATTATGACTCAATGAGTTATGAGGATC - 14940
 - S H L I N G V R L D F I M T Q * V M R I
 - P I * * M G * G * T L L * L N E L * G S
 - P F N K W G K A R L Y Y D S M S Y E D Q
 14941 - AAGATGCACTTTTCGCGTATACTAAGCGTAATGTCATCCCTACTATAACTCAAATGAATC - 15000
 - K M H F S R I L S V M S S L L * L K * I
 - R C T F R V Y * A * C H P Y Y N S N E S
 - D A L F A Y T K R N V I P T I T Q M N L
 15001 - TTAAGTATGCCATTAGTGCAAAGAATAGAGCTCGCACCGTAGCTGGTGTCTCTATCTGTA - 15060
 - L S M P L V Q R I E L A P * L V S L S V
 - * V C H * C K E * S S H R S W C L Y L *
 - K Y A I S A K N R A R T V A G V S I C S
 15061 - GTACTATGACAAATAGACAGTTTCATCAGAAATTATTGAAGTCAATAGCCGCCACTAGAG - 15120
 - V L * Q I D S F I R N Y * S Q * P P L E
 - Y Y D K * T V S S E I I E V N S R H * R
 - T M T N R Q F H Q K L L K S I A A T R G

FIG. 11 Con't

15121 - GAGCTACTGTGGTAATTGGAACAAGCAAGTTTTACGGTGGCTGGCATAATATGTTAAAAA - 15180
 - E L L W * L E Q A S F T V A G I I C * K
 - S Y C G N W N K Q V L R W L A * Y V K N
 - A T V V I G T S K F Y G G W H N M L K T
 15181 - CTGTTTACAGTGATGTAGAAACTCCACACCTTATGGGTTGGGATTATCCAAAATGTGACA - 15240
 - L F T V M * K L H T L W V G I I Q N V T
 - C L Q * C R N S T P Y G L G L S K M * Q
 - V Y S D V E T P H L M G W D Y P K C D R
 15241 - GAGCCATGCCTAACATGCTTAGGATAATGGCCTCTCTTGTCTTGCTCGCAAACATAACA - 15300
 - E P C L T C L G * W P L L F L L A N I T
 - S H A * H A * D N G L S C S C S Q T * H
 - A M P N M L R I M A S L V L A R K H N T
 15301 - CTTGCTGTAACCTTATCACACCGTTTCTACAGGTTAGCTAACGAGTGTGCGCAAGTATTAA - 15360
 - L A V T Y H T V S T G * L T S V R K Y *
 - L L * L I T P F L Q V S * R V C A S I K
 - C C N L S H R F Y R L A N E C A Q V L S
 15361 - GTGAGATGGTCATGTGTGGCGGCTCACTATATGTTAAACCAGGTGGAACATCATCCGGTG - 15420
 - V R W S C V A A H Y M L N Q V E H H P V
 - * D G H V W R L T I C * T R W N I I R *
 - E M V M C G G S L Y V K P G G T S S G D
 15421 - ATGCTACAACCTGCTTATGCTAATAGTGTCTTTAACATTTGTCAAGCTGTTACAGCCAATG - 15480
 - M L Q L L M L I V S L T F V K L L Q P M
 - C Y N C L C * * C L * H L S S C Y S Q C
 - A T T A Y A N S V F N I C Q A V T A N V
 15481 - TAAATGCACTTCTTTCAACTGATGGTAATAAGATAGCTGACAAGTATGTCCGCAATCTAC - 15540
 - * M H F F Q L M V I R * L T S M S A I Y
 - K C T S F N * W * * D S * Q V C P Q S T
 - N A L L S T D G N K I A D K Y V R N L Q
 15541 - AACACAGGCTCTATGAGTGTCTCTATAGAAATAGGGATGTTGATCATGAATTCGTGGATG - 15600
 - N T G S M S V S I E I G M L I M N S W M
 - T Q A L * V S L * K * G C * S * I R G *
 - H R L Y E C L Y R N R D V D H E F V D E
 15601 - AGTTTTACGCTTACCTGCGTAAACATTTCTCCATGATGATTCTTTCTGATGATGCCGTTG - 15660
 - S F T L T C V N I S P * * F F L M M P L
 - V L R L P A * T F L H D D S F * * C R C
 - F Y A Y L R K H F S M M I L S D D A V V
 15661 - TGTGCTATAACAGTAACCTATGCGGCTCAAGGTTTAGTAGCTAGCATTAGAAGTTTAAAGG - 15720
 - C A I T V T M R L K V * * L A L R T L R
 - V L * Q * L C G S R F S S * H * E L * G
 - C Y N S N Y A A Q G L V A S I K N F K A
 15721 - CAGTTCTTTATTATCAAAATAATGTGTTTCATGTCTGAGGCAAAATGTTGGACTGAGACTG - 15780
 - Q F F I I K I M C S C L R Q N V G L R L
 - S S L L S K * C V H V * G K M L D * D *
 - V L Y Y Q N N V F M S E A K C W T E T D
 15781 - ACCTTACTAAAGGACCTCACGAATTTTGCTCACAGCATACAATGCTAGTTAAACAAGGAG - 15840
 - T L L K D L T N F A H S I Q C * L N K E
 - P Y * R T S R I L S T A Y N A S * T R R
 - L T K G P H E F C S Q H T M L V K Q G D
 15841 - ATGATTACGTGTACCTGCCTTACCCAGATCCATCAAGAATATTAGGCGCAGGCTGTTTTG - 15900
 - M I T C T C L T Q I H Q E Y * A Q A V L
 - * L R V P A L P R S I K N I R R R L F C
 - D Y V Y L P Y P D P S R I L G A G C F V
 15901 - TCGATGATATTGTCAAAACAGATGGTACACTTATGATTGAAAGGTTTCGTGTCACTGGCTA - 15960
 - S M I L S K Q M V H L * L K G S C H W L
 - R * Y C Q N R W Y T Y D * K V R V T G Y
 - D D I V K T D G T L M I E R F V S L A I

FIG. 11 Con't

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15961 - TTGATGCTTACCCACTTACAAAACATCCTAATCAGGAGTATGCTGATGTCTTTCACTTGT - 16020
      - L M L T H L Q N I L I R S M L M S F T C
      - * C L P T Y K T S * S G V C * C L S L V
      - D A Y P L T K H P N Q E Y A D V F H L Y
16021 - ATTTACAATACATTAGAAAGTTACATGATGAGCTTACTGGCCACATGTTGGACATGTATT - 16080
      - I Y N T L E S Y M M S L L A T C W T C I
      - F T I H * K V T * * A Y W P H V G H V F
      - L Q Y I R K L H D E L T G H M L D M Y S
16081 - CCGTAATGCTAACTAATGATAACACCTCACGGTACTGGGAACCTGAGTTTTATGAGGCTA - 16140
      - P * C * L M I T P H G T G N L S F M R L
      - R N A N * * * H L T V L G T * V L * G Y
      - V M L T N D N T S R Y W E P E F Y E A M
16141 - TGTACACACCACATACAGTCTTGCAGGCTGTAGGTGCTTGTGTATTGTGCAATTCACAGA - 16200
      - C T H H I Q S C R L * V L V Y C A I H R
      - V H T T Y S L A G C R C L C I V Q F T D
      - Y T P H T V L Q A V G A C V L C N S Q T
16201 - CTTCACTTCGTTGCGGTGCCTGTATTAGGAGACCATTCTATGTTGCAAGTGCTGCTATG - 16260
      - L H F V A V P V L G D H S Y V A S A A M
      - F T S L R C L Y * E T I P M L Q V L L *
      - S L R C G A C I R R P F L C C K C C Y D
16261 - ACCATGTCATTTCAACATCACACAAATTAGTGTGTCTGTTAATCCCTATGTTTGCAATG - 16320
      - T M S F Q H H T N * C C L L I P M F A M
      - P C H F N I T Q I S V V C * S L C L Q C
      - H V I S T S H K L V L S V N P Y V C N A
16321 - CCCCAGGTTGTGATGTCACTGATGTGACACAACTGTATCTAGGAGGTATGAGCTATTATT - 16380
      - P Q V V M S L M * H N C I * E V * A I I
      - P R L * C H * C D T T V S R R Y E L L L
      - P G C D V T D V T Q L Y L G G M S Y Y C
16381 - GCAAGTCACATAAGCCTCCCATAGTTTCCATTATGTGCTAATGGTCAGGTTTTTGTT - 16440
      - A S H I S L P L V F H Y V L M V R F L V
      - Q V T * A S H * F S I M C * W S G F W F
      - K S H K P P I S F P L C A N G Q V F G L
16441 - TATACAAAAACACATGTGTAGGCAGTGACAATGTCACTGACTTCAATGCGATAGCAACAT - 16500
      - Y T K T H V * A V T M S L T S M R * Q H
      - I Q K H M C R Q * Q C H * L Q C D S N M
      - Y K N T C V G S D N V T D F N A I A T C
16501 - GTGATTGGACTAATGCTGGCGATTACATACTTGCCAACTTGTACTGAGAGACTCAAGC - 16560
      - V I G L M L A I T Y L P T L V L R D S S
      - * L D * C W R L H T C Q H L Y * E T Q A
      - D W T N A G D Y I L A N T C T E R L K L
16561 - TTTTCGCAGCAGAAACGCTCAAAGCCACTGAGGAAACATTTAAGCTGTCATATGGTATTG - 16620
      - F S Q Q K R S K P L R K H L S C H M V L
      - F R S R N A Q S H * G N I * A V I W Y C
      - F A A E T L K A T E E T F K L S Y G I A
16621 - CCACTGTACGCGAAGTACTCTCTGACAGAGAATTGCATCTTTCATGGGAGGTTGAAAAC - 16680
      - P L Y A K Y S L T E N C I F H G R L E N
      - H C T R S T L * Q R I A S F M G G W K T
      - T V R E V L S D R E L H L S W E V G K P
16681 - CTAGACCACATTGAACAGAACTATGTCTTTACTGGTTACCGTGTAATAAAATAGTA - 16740
      - L D H H * T E T M S L L V T V * L K I V
      - * T T I E Q K L C L Y W L P C N * K * *
      - R P P L N R N Y V F T G Y R V T K N S K
16741 - AAGTACAGATTGGAGAGTACACCTTTGAAAAAGGTGACTATGGTGATGCTGTTGTGTACA - 16800
      - K Y R L E S T P L K K V T M V M L L C T
      - S T D W R V H L * K R * L W * C C C V Q
      - V Q I G E Y T F E K G D Y G D A V V Y R

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FIG. 11 Con't

16801 - GAGGTACTACGACATACAAGTTGAATGTTGGTGATTACTTTGTGTTGACATCTCACACTG - 16860
 - E V L R H T S * M L V I T L C * H L T L
 - R Y Y D I Q V E C W * L L C V D I S H C
 - G T T T Y K L N V G D Y F V L T S H T V
 16861 - TAATGCCACTTAGTGACCTACTCTAGTGCCACAAGAGCACTATGTGAGAATTACTGGCT - 16920
 - * C H L V H L L * C H K S T M * E L L A
 - N A T * C T Y S S A T R A L C E N Y W L
 - M P L S A P T L V P Q E H Y V R I T G L
 16921 - TGTACCCAACACTCAACATCTCAGATGAGTTTTCTAGCAATGTTGCAAATTATCAAAAGG - 16980
 - C T Q H S T S Q M S F L A M L Q I I K R
 - V P N T Q H L R * V F * Q C C K L S K G
 - Y P T L N I S D E F S S N V A N Y Q K V
 16981 - TCGGCATGCAAAAGTACTCTACACTCCAAGGACCACCTGGTACTGGTAAGAGTCATTTTG - 17040
 - S A C K S T L H S K D H L V L V R V I L
 - R H A K V L Y T P R T T W Y W * E S F C
 - G M Q K Y S T L Q G P P G T G K S H F A
 17041 - CCATCGGACTTGCTCTCTATTACCCATCTGCTCGCATAGTGTATACGGCATGCTCTCATG - 17100
 - P S D L L S I T H L L A * C I R H A L M
 - H R T C S L L P I C S H S V Y G M L S C
 - I G L A L Y Y P S A R I V Y T A C S H A
 17101 - CAGCTGTTGATGCCCTATGTGAAAAGGCATTAAAATATTTGCCCATAGATAAATGTAGTA - 17160
 - Q L L M P Y V K R H * N I C P * I N V V
 - S C * C P M * K G I K I F A H R * M * *
 - A V D A L C E K A L K Y L P I D K C S R
 17161 - GAATCATACCTGCGCGTGCGCGTAGAGTGTGATAAATTCAAAGTGAATTCAACAC - 17220
 - E S Y L R V R A * S V L I N S K * I Q H
 - N H T C A C A R R V F * * I Q S E F N T
 - I I P A R A R V E C F D K F K V N S T L
 17221 - TAGAACAGTATGTTTTCTGCACTGTAAATGCCAGAAACAAGTCTGACATTGTAG - 17280
 - * N S M F S A L * M H C Q K Q L L T L *
 - R T V C F L H C K C I A R N N C * H C S
 - E Q Y V F C T V N A L P E T T A D I V V
 17281 - TCTTTGATGAAATCTCTATGGCTACTAATTATGACTTGAGTGTGTCAATGCTAGACTTC - 17340
 - S L M K S L W L L I M T * V L S M L D F
 - L * * N L Y G Y * L * L E C C Q C * T S
 - F D E I S M A T N Y D L S V V N A R L R
 17341 - GTGCAAAACACTACGTCTATATTGGCGATCCTGCTCAATTACCAGCCCCCGCACATTGC - 17400
 - V Q N T T S I L A I L L N Y Q P P A H C
 - C K T L R L Y W R S C S I T S P P H I A
 - A K H Y V Y I G D P A Q L P A P R T L L
 17401 - TGACTAAAGGCACACTAGAACCAGAATATTTTAATTCAAGTGTGCAGACTTATGAAAACAA - 17460
 - * L K A H * N Q N I L I Q C A D L * K Q
 - D * R H T R T R I F * F S V Q T Y E N N
 - T K G T L E P E Y F N S V C R L M K T I
 17461 - TAGGTCCAGACATGTTCCCTTGGAAGTGTGCGCGTTGTCCTGCTGAAATTGTTGACACTG - 17520
 - * V Q T C S L E L V A V V L L K L L T L
 - R S R H V P W N L S P L S C * N C * H C
 - G P D M F L G T C R R C P A E I V D T V
 17521 - TGAGTGCTTTAGTTTATGACAATAAGCTAAAAGCACACAAGGATAAGTCAGCTCAATGCT - 17580
 - * V L * F M T I S * K H T R I S Q L N A
 - E C F S L * Q * A K S T Q G * V S S M L
 - S A L V Y D N K L K A H K D K S A Q C F
 17581 - TCAAAATGTTCTACAAAGGTGTTATTACACATGATGTTTCATCTGCAATCAACAGACCTC - 17640
 - S K C S T K V L L H M M F H L Q S T D L
 - Q N V L Q R C Y Y T * C F I C N Q Q T S
 - K M F Y K G V I T H D V S S A I N R P Q

FIG. 11 Con't

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17641 - AAATAGGCGTTGTAAGAGAATTTCTTACACGCAATCCTGCTTGGAGAAAAGCTGTTTTTA - 17700
- K * A L * E N F L H A I L L G E K L F L
- N R R C K R I S Y T Q S C L E K S C F Y
- I G V V R E F L T R N P A W R K A V F I
17701 - TCTCACCTTATAATTCACAGAACGCTGTAGCTTCAAAAATCTTAGGATTGCCTACGCAGA - 17760
- S H L I I H R T L * L Q K S * D C L R R
- L T L * F T E R C S F K N L R I A Y A D
- S P Y N S Q N A V A S K I L G L P T Q T
17761 - CTGTTGATTCATCACAGGGTTCTGAATATGACTATGTCATATTCACACAACTACTGAAA - 17820
- L L I H H R V L N M T M S Y S H K L L K
- C * F I T G F * I * L C H I H T N Y * N
- V D S S Q G S E Y D Y V I F T Q T T E T
17821 - CAGCACACTCTTGTAATGTCAACCGCTTCAATGTGGCTATCACAAGGGCAAAAATTGGCA - 17880
- Q H T L V M S T A S M W L S Q G Q K L A
- S T L L * C Q P L Q C G Y H K G K N W H
- A H S C N V N R F N V A I T R A K I G I
17881 - TTTTGTGCATAATGTCTGATAGAGATCTTTATGACAACTGCAATTTACAAGTCTAGAAA - 17940
- F C A * C L I E I F M T N C N L Q V * K
- F V H N V * * R S L * Q T A I Y K S R N
- L C I M S D R D L Y D K L Q F T S L E I
17941 - TACCACGTCGCAATGTGGCTACATTACAAGCAGAAAATGTAAGTGGACTTTTTTAAGGACT - 18000
- Y H V A M W L H Y K Q K M * L D F L R T
- T T S Q C G Y I T S R K C N W T F * G L
- P R R N V A T L Q A E N V T G L F K D C
18001 - GTAGTAAGATCATTACTGGTCTTCATCCTACACAGGCACCTACACACCTCAGCGTTGATA - 18060
- V V R S L L V F I L H R H L H T S A L I
- * * D H Y W S S S Y T G T Y T P Q R * Y
- S K I I T G L H P T Q A P T H L S V D I
18061 - TAAAATTCAAGACTGAAGGATTATGTGTTGACATACCAGGCATACCAAAGGACATGACCT - 18120
- * N S R L K D Y V L T Y Q A Y Q R T * P
- K I Q D * R I M C * H T R H T K G H D L
- K F K T E G L C V D I P G I P K D M T Y
18121 - ACCGTAGACTCATCTCTATGATGGGTTTCAAAATGAATTACCAAGTCAATGGTTACCCTA - 18180
- T V D S S L * W V S K * I T K S M V T L
- P * T H L Y D G F Q N E L P S Q W L P *
- R R L I S M M G F K M N Y Q V N G Y P N
18181 - ATATGTTTATCACCCGCGAAGAAGCTATTTCGTACGTTTCGTGCGTGGATTGGCTTTGATG - 18240
- I C L S P A K K L F V T F V R G L A L M
- Y V Y H P R R S Y S R S C V D W L * C
- M F I T R E E A I R H V R A W I G F D V
18241 - TAGAGGGCTGTCATGCAACTAGAGATGCTGTGGGTACTAACCTACCTCTCCAGCTAGGAT - 18300
- * R A V M Q L E M L W V L T Y L S S * D
- R G L S C N * R C C G Y * P T S P A R I
- E G C H A T R D A V G T N L P L Q L G F
18301 - TTTCTACAGGTGTTAACTTAGTAGCTGTACCGACTGGTTATGTTGACACTGAAAATAACA - 18360
- F L Q V L T * * L Y R L V M L T L K I T
- F Y R C * L S S C T D W L C * H * K * H
- S T G V N L V A V P T G Y V D T E N N T
18361 - CAGAATTCACCAGAGTTAATGCAAAACCTCCACCAGGTGACCAGTTTAAACATCTTATAC - 18420
- Q N S P E L M Q N L H Q V T S L N I L Y
- R I H Q S * C K T S T R * P V * T S Y T
- E F T R V N A K P P P G D Q F K H L I P
18421 - CACTCATGTATAAAGGCTTGCCCTGGAATGTAGTGCATTAAGATAGTACAAATGCTCA - 18480
- H S C I K A C P G M * C V L R * Y K C S
- T H V * R L A L E C S A Y * D S T N A Q
- L M Y K G L P W N V V R I K I V Q M L S

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FIG. 11 Con't

18481 - GTGATACACTGAAAGGATTGTGTCAGACAGAGTCGTGTTTCGTCCTTTGGGCGCATGGCTTTG - 18540
 - V I H * K D C Q T E S C S S F G R M A L
 - * Y T E R I V R Q S R V R P L G A W L *
 - D T L K G L S D R V V F V L W A H G F E
 18541 - AGCTTACATCAATGAAGTACTTTGTCAAGATTGGACCTGAAAGAACGTGTTGTCTGTGTG - 18600
 - S L H Q * S T L S R L D L K E R V V C V
 - A Y I N E V L C Q D W T * K N V L S V *
 - L T S M K Y F V K I G P E R T C C L C D
 18601 - ACAAACGTGCAACTTGCTTTTCTACTTCATCAGATACTTATGCCTGCTGGAATCATTCTG - 18660
 - T N V Q L A F L L H Q I L M P A G I I L
 - Q T C N L L F Y F I R Y L C L L E S F C
 - K R A T C F S T S S D T Y A C W N H S V
 18661 - TGGGTTTTGACTATGTCTATAACCCATTTATGATTGATGTTTCAGCAGTGGGGCTTTACGG - 18720
 - W V L T M S I T H L * L M F S S G A L R
 - G F * L C L * P I Y D * C S A V G L Y G
 - G F D Y V Y N P F M I D V Q Q W G F T G
 18721 - GTAACCTTCAGAGTAACCATGACCAACATGCCAGGTACATGGAAATGCACATGTGGCTA - 18780
 - V T F R V T M T N I A R Y M E M H M W L
 - * P S E * P * P T L P G T W K C T C G *
 - N L Q S N H D Q H C Q V H G N A H V A S
 18781 - GTTGTGATGCTATCATGACTAGATGTTTAGCAGTCCATGAGTGCTTTGTAAAGCGCGTTG - 18840
 - V V M L S * L D V * Q S M S A L L S A L
 - L * C Y H D * M F S S P * V L C * A R *
 - C D A I M T R C L A V H E C F V K R V D
 18841 - ATTGGTCTGTTGAATACCTATTATAGGAGATGAAGTGAAGGTTAATTCTGCTTGCAGAA - 18900
 - I G L L N T L L * E M N * G L I L L A E
 - L V C * I P Y Y R R * T E G * F C L Q K
 - W S V E Y P I I G D E L R V N S A C R K
 18901 - AAGTACAACACATGGTTGTGAAGTCTGCATTGCTTGCTGATAAGTTTCCAGTTCCTTCATG - 18960
 - K Y N T W L * S L H C L L I S F Q F F M
 - S T T H G C E V C I A C * * V S S S S *
 - V Q H M V V K S A L L A D K F P V L H D
 18961 - ACATTGGAAATCCAAAGGCTATCAAGTGTGTGCCTCAGGCTGAAGTAGAATGGAAGTTCT - 19020
 - T L E I Q R L S S V C L R L K * N G S S
 - H W K S K G Y Q V C A S G * S R M E V L
 - I G N P K A I K C V P Q A E V E W K F Y
 19021 - ACGATGCTCAGCCATGTAGTGACAAAGCTTACAAAATAGAGGAACTCTTCTATTCTTATG - 19080
 - T M L S H V V T K L T K * R N S S I L M
 - R C S A M * * Q S L Q N R G T L L F L C
 - D A Q P C S D K A Y K I E E L F Y S Y A
 19081 - CTACACATCAGGATAAATTCATGATGGTGTGTTTGTGTTTGGAAATTGTAACGTTGATC - 19140
 - L H I T I N S L M V F V C F G I V T L I
 - Y T S R * I H * W C L F V L E L * R * S
 - T H H D K F T D G V C L F W N C N V D R
 19141 - GTTACCCAGCCAATGCAATTGTGTGTAGGTTTGACACAAGAGTCTTGTCAAACTTGAAC - 19200
 - V T Q P M Q L C V G L T Q E S C Q T * T
 - L P S Q C N C V * V * H K S L V K L E L
 - Y P A N A I V C R F D T R V L S N L N L
 19201 - TACCAGGCTGTGATGGTGGTAGTTTGTATGTGAATAAGCATGCATTCCACACTCCAGCTT - 19260
 - Y Q A V M V V V C M * I S M H S T L Q L
 - T R L * W W * F V C E * A C I P H S S F
 - P G C D G G S L Y V N K H A F H T P A F
 19261 - TCGATAAAAGTGCATTTACTAATTTAAAGCAATTGCCTTTCTTTTACTATTCTGATAGTC - 19320
 - S I K V H L L I * S N C L S F T I L I V
 - R * K C I Y * F K A I A F L L L F * * S
 - D K S A F T N L K Q L P F F Y Y S D S P

FIG. 11 Con't

19321 - CTTGTGAGTCTCATGGCAAACAAGTAGTGTGCGGATATTGATTATGTTCCACTCAAATCTG - 19380
 - L V S L M A N K * C R I L I M F H S N L
 - L * V S W Q T S S V G Y * L C S T Q I C
 - C E S H G K Q V V S D I D Y V P L K S A
 19381 - CTACGTGTATTACACGATGCAATTTAGGTGGTGTCTTTGCAGACACCATGCAAATGAGT - 19440
 - L R V L H D A I * V V L F A D T M Q M S
 - Y V Y Y T M Q F R W C C L Q T P C K * V
 - T C I T R C N L G G A V C R H H A N E Y
 19441 - ACCGACGACTTGGATGCATATAATATGATGATTCTGCTGGATTTAGCCTATGGATTT - 19500
 - T D S T W M H I I * * F L L D L A Y G F
 - P T V L G C I * Y D D F C W I * P M D L
 - R Q Y L D A Y N M M I S A G F S L W I Y
 19501 - ACAAACAATTTGATACTTATAACCTGTGGAATACATTTACCAGGTTACAGAGTTTAGAAA - 19560
 - T N N L I L I T C G I H L P G Y R V * K
 - Q T I * Y L * P V E Y I Y Q V T E F R K
 - K Q F D T Y N L W N T F T R L Q S L E N
 19561 - ATGTGGCTTATAATGTTGTTAATAAAGGACACTTTGATGGACACGCCGCGGAAGCACCTG - 19620
 - M W L I M L L I K D T L M D T P A K H L
 - C G L * C C * * R T L * W T R R R S T C
 - V A Y N V V N K G H F D G H A G E A P V
 19621 - TTTCCATTAATAATGCTGTTTACACAAAGGTAGATGGTATTGATGTGGAGATCTTTG - 19680
 - F P S L I M L F T Q R * M V L M W R S L
 - F H H * * C C L H K G R W Y * C G D L *
 - S I I N N A V Y T K V D G I D V E I F E
 19681 - AAAATAAGACAACACTTCCTGTTAATGTTGCATTTGAGCTTTGGGCTAAGCGTAACATTA - 19740
 - K I R Q H F L L M L H L S F G L S V T L
 - K * D N T S C * C C I * A L G * A * H *
 - N K T T L P V N V A F E L W A K R N I K
 19741 - AACCAGTGCCAGAGATTAAGATACTCAATAATTTGGGTGTTGATATCGCTGCTAATACTG - 19800
 - N Q C Q R L R Y S I I W V L I S L L I L
 - T S A R D * D T Q * F G C * Y R C * Y C
 - P V P E I K I L N N L G V D I A A N T V
 19801 - TAATCTGGGACTACAAAAGAGAAGCCCCAGCACATGTATCTACAATAGGTGTCTGCACAA - 19860
 - * S G T T K E K P Q H M Y L Q * V S A Q
 - N L G L Q K R S P S T C I Y N R C L H N
 - I W D Y K R E A P A H V S T I G V C T M
 19861 - TGACTGACATTGCCAAGAAACCTACTGAGAGTGCTTGTCTTCACTTACTGTCTTGTGTTG - 19920
 - * L T L P R N L L R V L V L H L L S C L
 - D * H C Q E T Y * E C L F F T Y C L V *
 - T D I A K K P T E S A C S S L T V L F D
 19921 - ATGGTAGAGTGAAGGACAGGTAGACCTTTTTAGAAACGCCCGTAATGGTGTGTTTAATAA - 19980
 - M V E W K D R * T F L E T P V M V F * *
 - W * S G R T G R P F * K R P * W C F N N
 - G R V E G Q V D L F R N A R N G V L I T
 19981 - CAGAAGGTTTCAGTCAAAGGTCTAACACCTTCAAAGGGACCAGCACAAAGCTAGCGTCAATG - 20040
 - Q K V Q S K V * H L Q R D Q H K L A S M
 - R R F S Q R S N T F K G T S T S * R Q W
 - E G S V K G L T P S K G P A Q A S V N G
 20041 - GAGTCACATTAATTGGAGAATCAGTAAAAACACAGTTTAACTACTTTAAGAAAGTAGACG - 20100
 - E S H * L E N Q * K H S L T T L R K * T
 - S H I N W R I S K N T V * L L * E S R R
 - V T L I G E S V K T Q F N Y F K K V D G
 20101 - GCATTATTCAACAGTTGCCTGAAACCTACTTTACTCAGAGCAGAGACTTAGAGGATTTTA - 20160
 - A L F N S C L K P T L L R A E T * R I L
 - H Y S T V A * N L L Y S E Q R L R G F *
 - I I Q Q L P E T Y F T Q S R D L E D F K

FIG. 11 Con't

20161 - AGCCCAGATCACAAATGGAACTGACTTTCTCGAGCTCGCTATGGATGAATTCATACAGC - 20220
 - S P D H K W K L T F S S S L W M N S Y S
 - A Q I T N G N * L S R A R Y G * I H T A
 - P R S Q M E T D F L E L A M D E F I Q R
 20221 - GATATAAGCTCGAGGGCTATGCCTTCGAACACATCGTTTATGGAGATTTTCAGTCATGGAC - 20280
 - D I S S R A M P S N T S F M E I S V M D
 - I * A R G L C L R T H R L W R F Q S W T
 - Y K L E G Y A F E H I V Y G D F S H G Q
 20281 - AACTTGGCGGTCTTCATTTAATGATAGGCTTAGCCAAGCGCTCACAAAGATTCACCACTTA - 20340
 - N L A V F I * * * A * P S A H K I H H L
 - T W R S S F N D R L S Q A L T R F T T *
 - L G G L S H L M I G L A K R S Q D S P L K
 20341 - AATTAGAGGATTTTATCCCTATGGACAGCACAGTGAAAAATTACTTCATAACAGATGCGC - 20400
 - N * R I L S L W T A Q * K I T S * Q M R
 - I R G F Y P Y G Q H S E K L L H N R C A
 - L E D F I P M D S T V K N Y F I T D A Q
 20401 - AAACAGGTTTCATCAAAATGTGTGTGTTCTGTGATTGATCTTTTACTTGATGACTTTGTGCG - 20460
 - K Q V H Q N V C V L * L I F Y L M T L S
 - N R F I K M C V F C D * S F T * * L C R
 - T G S S K C V C S V I D L L L D D F V E
 20461 - AGATAATAAGTCACAAGATTTGTCTAGTGATTTCAAAAGTGGTCAAGGTTACAATTGACT - 20520
 - R * * S H K I C Q * F Q K W S R L Q L T
 - D N K V T R F V S D F K S G Q G Y N * L
 - I I K S Q D L S V I S K V V K V T I D Y
 20521 - ATGCTGAAATTTTCATTCATGCTTTGGTGTAAGGATGGACATGTTGAAACCTTCTACCCAA - 20580
 - M L K F H S C F G V R M D M L K P S T Q
 - C * N F I H A L V * G W T C * N L L P K
 - A E I S F M L W C K D G H V E T F Y P K
 20581 - AACTACAAGCAAGTCAAGCGTGGCAACCAGGTGTTGCGATGCCTAAGTGTACAAGATGC - 20640
 - N Y K Q V K R G N Q V L R C L T C T R C
 - T T S K S S V A T R C C D A * L V Q D A
 - L Q A S Q A W Q P G V A M P N L Y K M Q
 20641 - AAAGAATGCTTCTTGAAAAGTGTGACCTTCAGAATTATGGTGAAAATGCTGTTATACCAA - 20700
 - K E C F L K S V T F R I M V K M L L Y Q
 - K N A S * K V * P S E L W * K C C Y T K
 - R M L L E K C D L Q N Y G E N A V I P K
 20701 - AAGGAATAATGATGAATGTGCGAAAGTATACTCAACTGTGTCAATACTTAAATACACTTA - 20760
 - K E * * * M S Q S I L N C V N T * I H L
 - R N N D E C R K V Y S T V S I L K Y T Y
 - G I M M N V A K Y T Q L C Q Y L N T L T
 20761 - CTTTAGCTGTACCCTACAACATGAGAGTTATTCACTTTGGTGCTGGCTCTGATAAAGGAG - 20820
 - L * L Y P T T * E L F T L V L A L I K E
 - F S C T L Q H E S Y S L W C W L * * R S
 - L A V P Y N M R V I H F G A G S D K G V
 20821 - TTGCACCAGGTACAGCTGTGCTCAGACAATGGTTGCCAACTGGCACACTACTTGTGCGATT - 20880
 - L H Q V Q L C S D N G C Q L A H Y L S I
 - C T R Y S C A Q T M V A N W H T T C R F
 - A P G T A V L R Q W L P T G T L L V D S
 20881 - CAGATCTTAATGACTTCGTCTCCGACGCAGATTCTACTTTAATTGGAGACTGTGCAACAG - 20940
 - Q I L M T S S P T Q I L L * L E T V Q Q
 - R S * * L R L R R R F Y F N W R L C N S
 - D L N D F V S D A D S T L I G D C A T V
 20941 - TACATACGGCTAATAAATGGGACCTTATTATTAGCGATATGTATGACCCTAGGACCAAAC - 21000
 - Y I R L I N G T L L L A I C M T L G P N
 - T Y G * * M G P Y Y * R Y V * P * D Q T
 - H T A N K W D L I I S D M Y D P R T K H

FIG. 11 Con't

21001 - ATGTGACAAAAGAGAATGACTCTAAAGAAGGGTTTTTCACTTATCTGTGTGGATTTATAA - 21060
 - M * Q K R M T L K K G F S L I C V D L *
 - C D K R E * L * R R V F H L S V W I Y K
 - V T K E N D S K E G F F T Y L C G F I K
 21061 - AGCAAAAAGTAGCCCTGGGTGGTTCTATAGCTGTAAAGATAACAGAGCATTCTTGAATG - 21120
 - S K N * P W V V L * L * R * Q S I L G M
 - A K T S P G W F Y S C K D N R A F L E C
 - Q K L A L G G S I A V K I T E H S W N A
 21121 - CTGACCTTTACAAGCTTATGGGCCATTTCTCATGGTGGACAGCTTTTGTACAAATGTAA - 21180
 - L T F T S L W A I S H G G Q L L L Q M *
 - * P L Q A Y G P F L M V D S F C Y K C K
 - D L Y K L M G H F S W W T A F V T N V N
 21181 - ATGCATCATCATCGGAAGCATTTTTAATTGGGGCTAACTATCTTGGCAAGCCGAAGGAAC - 21240
 - M H H H R K H F * L G L T I L A S R R N
 - C I I I G S I F N W G * L S W Q A E G T
 - A S S S E A F L I G A N Y L G K P K E Q
 21241 - AAATTGATGGCTATACCATGCATGCTAACTACATTTTCTGGAGGAACACAAATCCTATCC - 21300
 - K L M A I P C M L T T F S G G T Q I L S
 - N * W L Y H A C * L H F L E E H K S Y P
 - I D G Y T M H A N Y I F W R N T N P I Q
 21301 - AGTTGTCTTCTTACTCTTTGACATGAGCAAATTTCTCTTAAATTAAGAGGAACTG - 21360
 - S C L P I H S L T * A N F L L N * E E L
 - V V F L F T L * H E Q I S S * I K R N C
 - L S S Y S L F D M S K F P L K L R G T A
 21361 - CTGTAATGTCTCTTAAGGAGAATCAAATCAATGATATGATTTATTCTCTTCTGAAAAAG - 21420
 - L * C L L R R I K S M I * F I L F W K K
 - C N V S * G E S N Q * Y D L F S S G K R
 - V M S L K E N Q I N D M I Y S L L E K G
 21421 - GTAGGCTTATCATTAGAGAAAACAACAGAGTTGTGGTTTCAAGTGATATTCTTGTTAACA - 21480
 - V G L S L E K T T E L W F Q V I F L L T
 - * A Y H * R K Q Q S C G F K * Y S C * Q
 - R L I I R E N N R V V V S S D I L V N N
 21481 - ACTAAACGAACATGTTTATTTTCTTATTATTTCTTACTCTCACTAGTGGTAGTGACCTTG - 21540
 - T K R T C L F S Y Y F L L S L V V V T L
 - L N E H V Y F L I I S Y S H * W * * P *
 - * T N M F I F L L F L T L T S G S D L D
 21541 - ACCGGTGCACCACTTTTGTATGATGTTCAAGCTCCTAATTACACTCAACATACTTCATCTA - 21600
 - T G A P L L M M F S K L L I T L N I L H L
 - P V H H F * * C S S S * L H S T Y F I Y
 - R C T T F D D V Q A P N Y T Q H T S S M
 21601 - TGAGGGGGGTTTACTATCCTGATGAAATTTTATAGATCAGACACTCTTTATTTAACTCAGG - 21660
 - * G G F T I L M K F L D Q T L F I * L R
 - E G G L L S * * N F * I R H S L F N S G
 - R G V Y Y P D E I F R S D T L Y L T Q D
 21661 - ATTTATTTCTTCCATTTTATTCTAATGTTACAGGGTTTCATACTATTAATCATACGTTTG - 21720
 - I Y F F H F I L M L Q G F I L L I I R L
 - F I S S I L F * C Y R V S Y Y * S Y V W
 - L F L P F Y S N V T G F H T I N H T F G
 21721 - GCAACCCTGTCATACCTTTTAAGGATGGTATTTATTTTGCTGCCACAGAGAAATCAAATG - 21780
 - A T L S Y L L R M V F I L L P Q R N Q M
 - Q P C H T F * G W Y L F C C H R E I K C
 - N P V I P F K D G I Y F A A T E K S N V
 21781 - TTGTCGGTGGTTGGGTTTTTGGTTCTACCATGAACAACAAGTCACAGTCGGTGATTATTA - 21840
 - L S V V G F L V L P * T T S H S R * L L
 - C P W L G F W F Y H E Q Q V T V G D Y Y
 - V R G W V F G S T M N N K S Q S V I I I

FIG. 11 Con't

21841 - TTAACAATTCTACTAATGTTGTTATACGAGCATGTAACCTTTGAATTGTGTGACAACCCTT - 21900
 - L T I L L M L L Y E H V T L N C V T T L
 - * Q F Y * C C Y T S M * L * I V * Q P F
 - N N S T N V V I R A C N F E L C D N P F
 21901 - TCTTTGCTGTTTCTAAACCCATGGGTACACAGACATACTATGATATTCGATAATGCAT - 21960
 - S L L F L N P W V H R H I L * Y S I M H
 - L C C F * T H G Y T D T Y Y D I R * C I
 - F A V S K P M G T Q T H T M I F D N A F
 21961 - TTAATTGCACTTTTCGAGTACATATCTGATGCCTTTTCGCTTGATGTTTCAGAAAAGTCAG - 22020
 - L I A L S S T Y L M P F R L M F Q K S Q
 - * L H F R V H I * C L F A * C F R K V R
 - N C T F E Y I S D A F S L D V S E K S G
 22021 - GTAATTTTAAACACTTACGAGAGTTTGTGTTTAAAAATAAAGATGGGTTTCTCTATGTTT - 22080
 - V I L N T Y E S L C L K I K M G F S M F
 - * F * T L T R V C V * K * R W V S L C L
 - N F K H L R E F V F K N K D G F L Y V Y
 22081 - ATAAGGGCTATCAACCTATAGATGTAGTTCGTGATCTACCTTCTGGTTTAAACACTTTGA - 22140
 - I R A I N L * M * F V I Y L L V L T L *
 - * G L S T Y R C S S * S T F W F * H F E
 - K G Y Q P I D V V R D L P S G F N T L K
 22141 - AACCTATTTTAAAGTTGCCTCTTGGTATTAACATTACAAATTTTAGAGCCATTCTTACAG - 22200
 - N L F L S C L L V L T L Q I L E P F L Q
 - T Y F * V A S W Y * H Y K F * S H S Y S
 - P I F K L P L G I N I T N F R A I L T A
 22201 - CCTTTTCACCTGCTCAAGACATTGCGGGCACGTCAGCTGCAGCCTATTTTGTGGCTATT - 22260
 - P F H L L K T F G A R Q L Q P I L L A I
 - L F T C S R H L G H V S C S L F C W L F
 - F S P A Q D I W G T S A A A Y F V G Y L
 22261 - TAAAGCCAACTACATTTATGCTCAAGTATGATGAAAATGGTACAATCACAGATGCTGTTG - 22320
 - * S Q L H L C S S M M K M V Q S Q M L L
 - K A N Y I Y A Q V * * K W Y N H R C C *
 - K P T T F M L K Y D E N G T I T D A V D
 22321 - ATTGTTCTCAAAATCCACTTGCTGAACCTCAATGCTCTGTTAAGAGCTTTGAGATTGACA - 22380
 - I V L K I H L L N S N A L L R A L R L T
 - L F S K S T C * T Q M L C * E L * D * Q
 - C S Q N P L A E L K C S V K S F E I D K
 22381 - AAGGAATTTACCAGACCTCTAATTTACAGGTTGTTCCCTCAGGAGATGTTGTGAGATTCC - 22440
 - K E F T R P L I S G L F P Q E M L * D S
 - R N L P D L * F Q G C S L R R C C E I P
 - G I Y Q T S N F R V V P S G D V V R F P
 22441 - CTAATATTACAACTTGTGTCCTTTTGGAGAGGTTTTTAATGCTACTAAATCCCTTCTG - 22500
 - L I L Q T C V L L E R F L M L L N S L L
 - * Y Y K L V S F W R G F * C Y * I P F C
 - N I T N L C P F G E V F N A T K F P S V
 22501 - TCTATGCATGGGAGAGAAAAAATTTCTAATTGTGTTGCTGATTACTCTGTGCTCTACA - 22560
 - S M H G R E K K F L I V L L I T L C S T
 - L C M G E K K N F * L C C * L L C A L Q
 - Y A W E R K K I S N C V A D Y S V L Y N
 22561 - ACTCAACATTTTTTTCAACCTTTAAGTGCTATGGCGTTTCTGCCACTAAGTTGAATGATC - 22620
 - T Q H F F Q P L S A M A F L P L S * M I
 - L N I F F N L * V L W R F C H * V E * S
 - S T F F S T F K C Y G V S A T K L N D L
 22621 - TTTGCTTCTCCAATGTCTATGCAGATTCTTTTGTAGTCAAGGGAGATGATGTAAGACAAA - 22680
 - F A S P M S M Q I L L * S R E M M * D K
 - L L L Q C L C R F F C S Q G R * C K T N
 - C F S N V Y A D S F V V K G D D V R Q I

FIG. 11 Con't

22681 - TAGCGCCAGGACAAACTGGTGTTATTGCTGATTATAATTATAAAATTGCCAGATGATTTC - 22740
 - * R Q D K L V L L L I I I I N C Q M I S
 - S A R T N W C Y C * L * L * I A R * F H
 - A P G Q T G V I A D Y N Y K L P D D F M
 22741 - TGGGTTGTGTCCTTGCTTGAATACTAGGAACATTGATGCTACTTCAACTGGTAATTATA - 22800
 - W V V S L L G I L G T L M L L Q L V I I
 - G L C P C L E Y * E H * C Y F N W * L *
 - G C V L A W N T R N I D A T S T G N Y N
 22801 - ATTATAAATATAGGTATCTTAGACATGGCAAGCTTAGGCCCTTTGAGAGAGACATATCTA - 22860
 - I I N I G I L D M A S L G P L R E T Y L
 - L * I * V S * T W Q A * A L * E R H I *
 - Y K Y R Y L R H G K L R P F E R D I S N
 22861 - ATGTGCCTTTCTCCCCTGATGGCAAACCTTGACCCACCTGCTCTTAATTGTTATTGGC - 22920
 - M C L S P L M A N L A P H L L L I V I G
 - C A F L P * W Q T L H P T C S * L L L A
 - V P F S P D G K P C T P P A L N C Y W P
 22921 - CATTAAATGATTATGGTTTTTACACCACTACTGGCATTGGCTACCAACCTTACAGAGTTG - 22980
 - H * M I M V F T P L L A L A T N L T E L
 - I K * L W F L H H Y W H W L P T L Q S C
 - L N D Y G F Y T T T G I G Y Q P Y R V V
 22981 - TAGTACTTTCTTTTGAACCTTTAAATGCACCGGCCACGGTTTGTGGACCAAAATTATCCA - 23040
 - * Y F L L N F * M H R P R F V D Q N Y P
 - S T F F * T F K C T G H G L W T K I I H
 - V L S F E L L N A P A T V C G P K L S T
 23041 - CTGACCTTATTAAGAACCAGTGTGTCAATTTTAATTTTAATGGACTCACTGGTACTGGTG - 23100
 - L T L L R T S V S I L I L M D S L V L V
 - * P Y * E P V C Q F * F * W T H W Y W C
 - D L I K N Q C V N F N F N G L T G T G V
 23101 - TGTTAACTCCTTCTTCAAAGAGATTTC AACCATTTCAACAATTTGGCCGTGATGTTTCTG - 23160
 - C * L L L Q R D F N H F N N L A V M F L
 - V N S F F K E I S T I S T I W P * C F *
 - L T P S S K R F Q P F Q Q F G R D V S D
 23161 - ATTTCACTGATTCCGTTTCGAGATCCTAAAACATCTGAAATATTAGACATTTACCTTGCT - 23220
 - I S L I P F E I L K H L K Y * T F H L A
 - F H * F R S R S * N I * N I R H F T L L
 - F T D S V R D P K T S E I L D I S P C S
 23221 - CTTTGGGGGTGTAAGTGTAATTACACCTGGAACAAATGCTTCATCTGAAGTTGCTGTTT - 23280
 - L L G V * V * L H L E Q M L H L K L L F
 - F W G C K C N Y T W N K C F I * S C C S
 - F G G V S V I T P G T N A S S E V A V L
 23281 - TATATCAAGATGTAACTGCACTGATGTTTCTACAGCAATTCATGCAGATCAACTCACAC - 23340
 - Y I K M L T A L M F L Q Q F M Q I N S H
 - I S R C * L H * C F Y S N S C R S T H T
 - Y Q D V N C T D V S T A I H A D Q L T P
 23341 - CAGCTTGGCGCATATATTCTACTGGAAACAATGTATTCCAGACTCAAGCAGGCTGTCTTA - 23400
 - Q L G A Y I L L E T M Y S R L K Q A V L
 - S L A H I F Y W K Q C I P D S S R L S Y
 - A W R I Y S T G N N V F Q T Q A G C L I
 23401 - TAGGAGCTGAGCATGTCGACACTTCTTATGAGTGCGACATTCCTATTGGAGCTGGCATT - 23460
 - * E L S M S T L L M S A T F L L E L A F
 - R S * A C R H F L * V R H S Y W S W H L
 - G A E H V D T S Y E C D I P I G A G I C
 23461 - GTGCTAGTTACCATACAGTTTCTTTATTACGTAGTACTAGCCAAAAATCTATTGTGGCTT - 23520
 - V L V T I Q F L Y Y V V L A K N L L W L
 - C * L P Y S F F I T * Y * P K I Y C G L
 - A S Y H T V S L L R S T S Q K S I V A Y

FIG. 11 Con't

23521 - ATACTATGTCTTTAGGTGCTGATAGTTCAATTGCTTACTCTAATAACACCATTGCTATAC - 23580
 - I L C L * V L I V Q L L T L I T P L L Y
 - Y Y V F R C * * F N C L L * * H H C Y T
 - T M S L G A D S S I A Y S N N T I A I P
 23581 - CTACTAACTTTTCAATTAGCATTACTACAGAAGTAATGCCTGTTTCTATGGCTAAAACCT - 23640
 - L L T F Q L A L L Q K * C L F L W L K P
 - Y * L F N * H Y Y R S N A C F Y G * N L
 - T N F S I S I T T E V M P V S M A K T S
 23641 - CCGTAGATTGTAATATGTACATCTGCGGAGATTCTACTGAATGTGCTAATTTGCTTCTCC - 23700
 - P * I V I C T S A E I L L N V L I C F S
 - R R L * Y V H L R R F Y * M C * F A S P
 - V D C N M Y I C G D S T E C A N L L L Q
 23701 - AATATGGTAGCTTTTGCACACAACATAAATCGTGCCTCTCAGGTATTGCTGCTGAACAGG - 23760
 - N M V A F A H N * I V H S Q V L L L N R
 - I W * L L H T T K S C T L R Y C C * T G
 - Y G S F C T Q L N R A L S G I A A E Q D
 23761 - ATCGCAACACACGTGAAGTGTTCGCTCAAGTCAAACAAATGTACAAAACCCCAACTTTGA - 23820
 - I A T H V K C S L K S N K C T K P Q L *
 - S Q H T * S V R S S Q T N V Q N P N F E
 - R N T R E V F A Q V K Q M Y K T P T L K
 23821 - AATATTTTGGTGGTTTAAATTTTACAAATATTACCTGACCCTCTAAAGCCAACTAAGA - 23880
 - N I L V V L I F H K Y Y L T L * S Q L R
 - I F W W F * F F T N I T * P S K A N * E
 - Y F G G F N F S Q I L P D P L K P T K R
 23881 - GGTCTTTTATTGAGGACTTGCTCTTTAATAAGGTGACACTCGCTGATGCTGGCTTCATGA - 23940
 - G L L L R T C S L I R * H S L M L A S *
 - V F Y * G L A L * * G D T R * C W L H E
 - S F I E D L L F N K V T L A D A G F M K
 23941 - AGCAATATGGCGAATGCCTAGGTGATATTAATAGATCTCATTGTGCGCAGAAGT - 24000
 - S N M A N A * V I L M L E I S F V R R S
 - A I W R M P R * Y * C * R S H L C A E V
 - Q Y G E C L G D I N A R D L I C A Q K F
 24001 - TCAATGGACTTACAGTGTGCGCACCTCTGCTCACTGATGATGATTGCTGCCTACACTG - 24060
 - S M D L Q C C H L C S L M I * L L P T L
 - Q W T Y S V A T S A H * * Y D C C L H C
 - N G L T V L P P L L T D D M I A A Y T A
 24061 - CTGCTCTAGTTAGTGGTACTGCCACTGCTGGATGGACATTTGGTGTGCGCTGCTCTTC - 24120
 - L L * L V V L P L L D G H L V L A L F
 - C S S * W Y C H C W M D I W C W R C S S
 - A L V S G T A T A G W T F G A G A A L Q
 24121 - AAATACCTTTTGCTATGCAAATGGCATATAGGTTCAATGGCATTGGAGTTACCCAAAATG - 24180
 - K Y L L L C K W H I G S M A L E L P K M
 - N T F C Y A N G I * V Q W H W S Y P K C
 - I P F A M Q M A Y R F N G I G V T Q N V
 24181 - TTCTCTATGAGAACCACAAAACAAATCGCCAACCAATTTAACAAGGCGATTAGTCAAATTC - 24240
 - F S M R T K N K S P T N L T R R L V K F
 - S L * E P K T N R Q P I * Q G D * S N S
 - L Y E N Q K Q I A N Q F N K A I S Q I Q
 24241 - AAGAATCACTTACAACAACATCAACTGCATTGGGCAAGCTGCAAGACGTTGTAAACCAGA - 24300
 - K N H L Q Q H Q L H W A S C K T L L T R
 - R I T Y N N I N C I G Q A A R R C * P E
 - E S L T T T S T A L G K L Q D V V N Q N
 24301 - ATGCTCAAGCATTAAACACACTTGTTAAACAACTTAGCTCTAATTTTGGTGCAATTTCAA - 24360
 - M L K H * T H L L N N L A L I L V Q F Q
 - C S S I K H T C * T T * L * F W C N F K
 - A Q A L N T L V K Q L S S N F G A I S S

FIG. 11 Con't

24361 - GTGTGCTAAATGATATCCTTTTCGCGACTTGATAAAGTCGAGGCGGAGGTACAAATTGACA - 24420
 - V C * M I S F R D L I K S R R R Y K L T
 - C A K * Y P F A T * * S R G G G T N * Q
 - V L N D I L S R L D K V E A E V Q I D R
 24421 - GGTTAATTACAGGCAGACTTCAAAGCCTTCAAACCTATGTAACACAACAATAATCAGGG - 24480
 - G * L Q A D F K A F K P M * H N N * S G
 - V N Y R Q T S K P S N L C N T T T N Q G
 - L I T G R L Q S L Q T Y V T Q Q L I R A
 24481 - CTGCTGAAATCAGGGCTTCTGCTAATCTTGCTGCTACTAAAATGTCTGAGTGTGTTCTTG - 24540
 - L L K S G L L L I L L L L K C L S V F L
 - C * N Q G F C * S C C Y * N V * V C S W
 - A E I R A S A N L A A T K M S E C V L G
 24541 - GACAATCAAAAAGAGTTGACTTTTGTGGAAGGGCTACCACCTTATGTCCTTCCACAAG - 24600
 - D N Q K E L T F V E R A T T L C P S H K
 - T I K K S * L L W K G L P P Y V L P T S
 - Q S K R V D F C G K G Y H L M S F P Q A
 24601 - CAGCCCCGCATGGTGTGCTTCTTCTACATGTCACGTATGTGCCATCCCAGGAGAGGAAGT - 24660
 - Q P R M V L S S Y M S R M C H P R R G T
 - S P A W C C L P T C H V C A I P G E E L
 - A P H G V V F L H V T Y V P S Q E R N F
 24661 - TCACCACAGCGCCAGCAATTTGTCTCATGAAGGCAAAGCATACTTCCCTCGTGAAGGTGTTT - 24720
 - S P Q R Q Q F V M K A K H T S L V K V F
 - H H S A S N L S * R Q S I L P S * R C F
 - T T A P A I C H E G K A Y F P R E G V F
 24721 - TTGTGTTTAATGGCACTTCTTGTTTATTACACAGAGGAAGTCTTTTCTCCACAAATAA - 24780
 - L C L M A L L G L L H R G T S F L H K *
 - C V * W H F L V Y Y T E E L L F S T N N
 - V F N G T S W F I T Q R N F F S P Q I I
 24781 - TTACTACAGACAATACATTTGTCTCAGGAAATTGTGATGTCGTTATTGGCATCATTAACA - 24840
 - L L Q T I H S Q E I V M S L L A S L T
 - Y Y R Q Y I C L R K L * C R Y W H H * Q
 - T T D N T F V S G N C D V V I G I I N N
 24841 - ACACAGTTTATGATCCTCTGCAACCTGAGCTTGACTCATTCAAAGAAGAGCTGGACAAGT - 24900
 - T Q F M I L C N L S L T H S K K S W T S
 - H S L * S S A T * A * L I Q R R A G Q V
 - T V Y D P L Q P E L D S F K E E L D K Y
 24901 - ACTTCAAAAATCATAATCACCAGATGTTGATCTTGGCGACATTCAGGCATTAACGCTT - 24960
 - T S K I I H H Q M L I L A T F Q A L T L
 - L Q K S Y I T R C * S W R H F R H * R F
 - F K N H T S P D V D L G D I S G I N A S
 24961 - CTGTCGTCAACATTCAAAAAGAAATTGACCGCCTCAATGAGGTCGCTAAAAATTTAAATG - 25020
 - L S S T F K K K L T A S M R S L K I * M
 - C R Q H S K R N * P P Q * G R * K F K *
 - V V N I Q K E I D R L N E V A K N L N E
 25021 - AATCACTCATTGACCTTCAAGAATTGGGAAAATATGAGCAATATATTAATGGCCTTGGT - 25080
 - N H S L T F K N W E N M S N I L N G L G
 - I T H * P S R I G K I * A I Y * M A L V
 - S L I D L Q E L G K Y E Q Y I K W P W Y
 25081 - ATGTTTGGCTCGGCTTCATTGCTGGACTAATTGCCATCGTCATGGTTACAATCTTGCTTT - 25140
 - M F G S A S L L D * L P S S W L Q S C F
 - C L A R L H C W T N C H R H G Y N L A L
 - V W L G F I A G L I A I V M V T I L L C
 25141 - GTTGCATGACTAGTTGTTGCAGTTGCCTCAAGGGTGCATGCTCTTGTGGTTCTTGCTGCA - 25200
 - V A * L V V A V A S R V H A L V V L A A
 - L H D * L L Q L P Q G C M L L W F L L Q
 - C M T S C C S C L K G A C S C G S C C K

FIG. 11 Con't

25201 - AGTTTGATGAGGATGACTCTGAGCCAGTTCTCAAGGGTGTCAAATTACATTACACATAAA - 25260
 - S L M R M T L S Q F S R V S N Y I T H K
 - V * * G * L * A S S Q G C Q I T L H I N
 - F D E D D S E P V L K G V K L H Y T * T
 25261 - CGAACTTATGGATTGTTTATGAGATTTTTACTCTTGGATCAATTACTGCACAGCCAGT - 25320
 - R T Y G F V Y E I F Y S W I N Y C T A S
 - E L M D L F M R F F T L G S I T A Q P V
 - N L W I C L * D F L L L D Q L L H S Q *
 25321 - AAAAATTGACAATGCTTCTCCTGCAAGTACTGTTTCATGCTACAGCAACGATACCGCTACA - 25380
 - K N * Q C F S C K Y C S C Y S N D T A T
 - K I D N A S P A S T V H A T A T I P L Q
 - K L T M L L L Q V L F M L Q Q R Y R Y K
 25381 - AGCCTCACTCCCTTTTCGGATGGCTTGTATTGGCGTTGCATTCTTGCTGTTTTTCAGAG - 25440
 - S L T P F R M A C Y W R C I S C C F S E
 - A S L P F G W L V I G V A F L A V F Q S
 - P H S L S D G L L L A L H F L L F F R A
 25441 - CGCTACCAAAATAATTGCGCTCAATAAAAGATGGCAGCTAGCCCTTTATAAGGGCTTCCA - 25500
 - R Y Q N N C A Q * K M A A S P L * G L P
 - A T K I I A L N K R W Q L A L Y K G F Q
 - L P K * L R S I K D G S * P F I R A S S
 25501 - GTTCATTGCAATTTACTGCTGCTATTTGTACCATCTATTCACATCTTTTGCTTGTCGC - 25560
 - V H L Q F T A A I C Y H L F T S F A C R
 - F I C N L L L L F V T I Y S H L L L V A
 - S F A I Y C C Y L L P S I H I F C L S L
 25561 - TGCAGGTAAGGAGGCGCAATTTTTGTACCTCTATGCCTTGATATATTTTCTACAATGCAT - 25620
 - C R * G G A I F V P L C L D I F S T M H
 - A G K E A Q F L Y L Y A L I Y F L Q C I
 - Q V R R R N F C T S M P * Y I F Y N A S
 25621 - CAACGCATGTAGAATTATTATGAGATGTTGGCTTTGTTGGAAGTGCAAATCCAAGAACCC - 25680
 - Q R M * N Y Y E M L A L L E V Q I Q E P
 - N A C R I I M R C W L C W K C K S K N P
 - T H V E L L * D V G F V G S A N P R T H
 25681 - ATTACTTTATGATGCCAACTACTTTGTTTGCTGGCACACACATAACTATGACTACTGTAT - 25740
 - I T L * C Q L L C L L A H T * L * L L Y
 - L L Y D A N Y F V C W H T H N Y D Y C I
 - Y F M M P T T L F A G T H I T M T T V Y
 25741 - ACCATATAACAGTGTACAGATACAATTGTCGTTACTGAAGGTGACGGCATTTCACACC - 25800
 - T I * Q C H R Y N C R Y * R * R H F N T
 - P Y N S V T D T I V V T E G D G I S T P
 - H I T V S Q I Q L S L L K V T A F Q H Q
 25801 - AAAACTCAAAGAAGACTACCAAATTGGTGGTTATTCTGAGGATAGGCACTCAGGTGTTAA - 25860
 - K T Q R R L P N W W L F * G * A L R C *
 - K L K E D Y Q I G G Y S E D R H S G V K
 - N S K K T T K L V V I L R I G T Q V L K
 25861 - AGACTATGTCGTTGTACATGGCTATTTACCCGAAGTTTACTACCAGCTTGAGTCTACACA - 25920
 - R L C R C T W L F H R S L L P A * V Y T
 - D Y V V V H G Y F T E V Y Y Q L E S T Q
 - T M S L Y M A I S P K F T T S L S L H K
 25921 - AATTACTACAGACACTGGTATTGAAAATGCTACATTCTTCATCTTTAACAAGCTTGTTAA - 25980
 - N Y Y R H W Y * K C Y I L H L * Q A C *
 - I T T D T G I E N A T F F I F N K L V K
 - L L Q T L V L K M L H S S S L T S L L K
 25981 - AGACCCACCGAATGTGCAAATACACACAATCGACGGCTCTTCAGGAGTTGCTAATCCAGC - 26040
 - R P T E C A N T H N R R L F R S C * S S
 - D P P N V Q I H T I D G S S G V A N P A
 - T H R M C K Y T Q S T A L Q E L L I Q Q

FIG. 11 Con't

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26041 - AATGGATCCAATTTATGATGAGCCGACGACGACTACTAGCGTGCCTTTGTAAGCACAAGA - 26100
      - N G S N L * * A D D D Y * R A F V S T R
      - M D P I Y D E P T T T T S V P L * A Q E
      - W I Q F M M S R R R L L A C L C K H K K
26101 - AAGTGAGTACGAACTTATGTACTCATTCGTTTCGGAAGAAACAGGTACGTTAATAGTTAA - 26160
      - K * V R T Y V L I R F G R N R Y V N S *
      - S E Y E L M Y S F V S E E T G T L I V N
      - V S T N L C T H S F R K K Q V R * * L I
26161 - TAGCGTACTTCTTTTTCTTGCTTTTCGTGGTATTCTTGCTAGTCACACTAGCCATCCTTAC - 26220
      - * R T S F S C F R G I L A S H T S H P Y
      - S V L L F L A F V V F L L V T L A I L T
      - A Y F F F L L S W Y S C * S H * P S L L
26221 - TCGCGTTCGATTGTGTGCGTACTGCTGCAATATTGTTAACGTGAGTTTAGTAAAACCAAC - 26280
      - C A S I V C V L L Q Y C * R E F S K T N
      - A L R L C A Y C C N I V N V S L V K P T
      - R F D C V R T A A I L L T * V * * N Q R
26281 - GGTTTACGTCTACTCGCGTGTTAAAAATCTGAACTCTTCTGAAGGAGTTCCTGATCTTCT - 26340
      - G L R L L A C * K S E L F * R S S * S S
      - V Y V Y S R V K N L N S S E G V P D L L
      - F T S T R V L K I * T L L K E F L I F W
26341 - GGTCTAAACGAACAACTAATTATTATTATTCTGTTTGGAACTTTAACATTGCTTATCATG - 26400
      - G L N E L T I I I I L F G T L T L L I M
      - V * T N * L L L L F C L E L * H C L S W
      - S K R T N Y Y Y Y S V W N F N I A Y H G
26401 - GCAGACAACGGTACTATTACCGTTGAGGAGCTTAAACAACCTCCTGGAACAATGGAACCTA - 26460
      - A D N G T I T V E E L K Q L L E Q W N L
      - Q T T V L L P L R S L N N S W N N G T *
      - R Q R Y Y Y R * G A * T T P G T M E P S
26461 - GTAATAGGTTTCCTATTCTAGCCTGGATTATGTTACTACAATTTGCCTATTCTAATCGG - 26520
      - V I G F L F L A W I M L L Q F A Y S N R
      - * * V S Y S * P G L C Y Y N L P I L I G
      - N R F P I P S L D Y V T T I C L F * S E
26521 - AACAGGTTTTTTGTACATAATAAAGCTTGTTTTCTCTGGCTCTTGTGGCCAGTAACACTT - 26580
      - N R F L Y I I K L V F L W L L W P V T L
      - T G F C T * * S L F S S G S C G Q * H L
      - Q V F V H N K A C F P L A L V A S N T C
26581 - GCTTGTTTTGTGCTTGCTGTTGTCTACAGAATTAATTGGGTGACTGGCGGGATTGCGATT - 26640
      - A C F V L A V V Y R I N W V T G G I A I
      - L V L C L L S T E L I G * L A G L R L
      - L F C A ` C C C L Q N * L G D W R D C D C
26641 - GCAATGGCTTGTATTGTAGGCTTGATGTGGCTTAGCTACTTCGTTGCTTCCTTCAGGCTG - 26700
      - A M A C I V G L M W L S Y F V A S F R L
      - Q W L V L * A * C G L A T S L L P S G C
      - N G L Y C R L D V A * L L R C F L Q A V
26701 - TTTGCTCGTACCCGCTCAATGTGGTCATTCAACCCAGAAACAAACATTCTTCTCAATGTG - 26760
      - F A R T R S M W S F N P E T N I L L N V
      - L L V P A Q C G H S T Q K Q T F S M C
      - C S Y P L N V V I Q P R N K H S S Q C A
26761 - CCTCTCCGGGGGACAATTGTGACCAGACCGCTCATGGAAAGTGAACCTTGTCATTGGTGCT - 26820
      - P L R G T I V T R P L M E S E L V I G A
      - L S G G Q L * P D R S W K V N L S L V L
      - S P G D N C D Q T A H G K * T C H W C C
26821 - GTGATCATTCGTGGTCACTTGCGAATGGCCGGACACTCCCTAGGGCGCTGTGACATTAAG - 26880
      - V I I R G H L R M A G H S L G R C D I K
      - * S F V V T C E W P D T P * G A V T L R
      - D H S W S L A N G R T L P R A L * H * G

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FIG. 11 Con't

26881 - GACCTGCCAAAAGAGATCACTGTGGCTACATCACGAACGCTTTCTTATTACAAATTAGGA - 26940
 - D L P K E I T V A T S R T L S Y Y K L G
 - T C Q K R S L W L H H E R F L I T N * E
 - P A K R D H C G Y I T N A F L L Q I R S
 26941 - GCGTCGCAGCGTGTAGGCACTGATTTCAGGTTTTGCTGCATACAACCGCTACCGTATTGGA - 27000
 - A S Q R V G T D S G F A A Y N R Y R I G
 - R R S V * A L I Q V L L H T T A T V L E
 - V A A C R H * F R F C C I Q P L P Y W K
 27001 - AACTATAAATTAAATACAGACCACGCCGGTAGCAACGACAATATTGCTTTGCTAGTACAG - 27060
 - N Y K L N T D H A G S N D N I A L L V Q
 - T I N * I Q T T P V A T T I L L C * Y S
 - L * I K Y R P R R * Q R Q Y C F A S T V
 27061 - TAAGTGACAACAGATGTTTCATCTTGTTGACTTCCAGGTTACAATAGCAGAGATATTGAT - 27120
 - * V T T D V S S C * L P G Y N S R D I D
 - K * Q Q M F H L V D F Q V T I A E I L I
 - S D N R C F I L L T S R L Q * Q R Y * L
 27121 - TATCATTATGAGGACTTTCAGGATTGCTATTTGGAATCTTGACGTTATAATAAGTTCAAT - 27180
 - Y H Y E D F Q D C Y L E S * R Y N K F N
 - I I M R T F R I A I W N L D V I I S S I
 - S L * G L S G L L F G I L T L * * V Q *
 27181 - AGTGAGACAATTATTTAAGCCTCTAACTAAGAAGAATTATTCGGAGTTAGATGATGAAGA - 27240
 - S E T I I * A S N * E E L F G V R * * R
 - V R Q L F K P L T K K N Y S E L D D E E
 - * D N Y L S L * L R R I I R S * M M K N
 27241 - ACCTATGGAGTTAGATTATCCATAAAACGAACATGAAAATTATTCTCTTCCTGACATTGA - 27300
 - T Y G V R L S I K R T * K L F S S * H *
 - P M E L D Y P * N E H E N Y S L P D I D
 - L W S * I I H K T N M K I I L F T L I
 27301 - TTGTATTTACATCTTGCGAGCTATATCACTATCAGGAGTGTGTTAGAGGTACGACTGTAC - 27360
 - L Y L H L A S Y I T I R S V L E V R L Y
 - C I Y I L R A I S L S G V C * R Y D C T
 - V F T S C E L Y H Y Q E C V R G T T V L
 27361 - TACTAAAAGAACCTTGCCCATCAGGAACATACGAGGGCAATTCACCATTTCACCCTCTTG - 27420
 - Y * K N L A H Q E H T R A I H H F T L L
 - T K R T L P I R N I R G Q F T I S P S C
 - L K E P C P S G T Y E G N S P F H P L A
 27421 - CTGACAATAAATTTGCACTAACTTGCACTAGCACACACTTTGCTTTTGCTGTGCTGACG - 27480
 - L T I N L H * L A L A H T L L L L V L T
 - * Q * I C T N L H * H T L C F C L C * R
 - D N K F A L T C T S T H F A F A C A D G
 27481 - GTACTCGACATACCTATCAGCTGCGTGCAAGATCAGTTTCACCAAACTTTTCATCAGAC - 27540
 - V L D I P I S C V Q D Q F H Q N F S S D
 - Y S T Y L S A A C K I S F T K T F H Q T
 - T R H T Y Q L R A R S V S P K L F I R Q
 27541 - AAGAGGAGGTTCAACAAGAGCTCTACTCGCCACTTTTTCTCATTTGTTGCTGCTCTAGTAT - 27600
 - K R R F N K S S T R H F F S L L L L * Y
 - R G G S T R A L L A T F S H C C S S I
 - E E V Q Q E L Y S P L F L I V A A L V F
 27601 - TTTTAATACTTTGCTTCACCATTAAGAGAAAGACAGAATGAATGAGCTCACTTTAATTGA - 27660
 - F * Y F A S P L R E R Q N E * A H F N *
 - F N T L L H H * E K D R M N E L T L I D
 - L I L C F T I K R K T E * M S S L * L T
 27661 - CTTCTATTTGTGCTTTTTAGCCTTTCTGCTATTCCTTGTTTAATAATGCTTATTATATT - 27720
 - L L F V L F S L S A I P C F N N A Y Y I
 - F Y L C F L A F L L F L V L I M L I I F
 - S I C A F * P F C Y S L F * * C L L Y F

FIG. 11 Con't

27721 - TTGGTTTTCTACTCGAAATCCAGGATCTAGAAGAACCTTGTACCAAAGTCTAAACGAACAT - 27780
 - L V F T R N P G S R R T L Y Q S L N E H
 - W F S L E I Q D L E E P C T K V * T N M
 - G F H S K S R I * K N L V P K S K R T *
 27781 - GAAACTTCTCATTGTTTTGACTTGTATTTCTCTATGCAGTTGCATATGCACTGTAGTACA - 27840
 - E T S H C F D L Y F S M Q L H M H C S T
 - K L L I V L T C I S L C S C I C T V V Q
 - N F S L F * L V F L Y A V A Y A L * Y S
 27841 - GCGCTGTGCATCTAATAAACCTCATGTGCTTGAAGATCCTTGTAAAGGTACAACACTAGGG - 27900
 - A L C I * * T S C A * R S L * G T T L G
 - R C A S N K P H V L E D P C K V Q H * G
 - A V H L I N L M C L K I L V R Y N T R G
 27901 - GTAATACTTATAGCACTGCTTGGCTTTGTGCTCTAGGAAAGGTTTTACCTTTTCATAGAT - 27960
 - V I L I A L L G F V L * E R F Y L F I D
 - * Y L * H C L A L C S R K G F T F S * M
 - N T Y S T A W L C A L G K V L P F H R W
 27961 - GGCACACTATGGTTCAAACATGCACACCTAATGTTACTATCAACTGTCAAGATCCAGCTG - 28020
 - G T L W F K H A H L M L L S T V K I Q L
 - A H Y G S N M H T * C Y Y Q L S R S S W
 - H T M V Q T C T P N V T I N C Q D P A G
 28021 - GTGGTGCCTTATAGCTAGGTGTTGGTACCTTCATGAAGGTCACCAAAGTCTGCATTTA - 28080
 - V V R L * L G V G T F M K V T K L L H L
 - W C A Y S * V L V P S * R S P N C C I *
 - G A L I A R C W Y L H E G H Q T A A F R
 28081 - GAGACGTACTTGTGTTTTAAATAAACGAACAAATTAATAATGTCTGATAATGGACCCCAA - 28140
 - E T Y L L F * I N E Q I K M S D N G P Q
 - R R T C C F K * T N K L K C L I M D P N
 - D V L V V L N K R T N * N V * * W T P I
 28141 - TCAAACCAACGTAGTGCCCCCGCATTACATTGGTGGACCCACAGATTCAACTGACAAT - 28200
 - S N Q R S A P R I T F G G P T D S T D N
 - Q T N V V P P A L H L V D P Q I Q L T I
 - K P T * C P P H Y I W W T H R F N * Q *
 28201 - AACCAGAATGGAGGACGCAATGGGGCAAGGCCAAAACAGCGCCGACCCCAAGGTTTACCC - 28260
 - N Q N G G R N G A R P K Q R R P Q G L P
 - T R M E D A M G Q G Q N S A D P K V Y P
 - P E W R T Q W G K A K T A P T P R F T Q
 28261 - AATAACTGCGTCTTGGTTACAGCTCTCACTCAGCATGGCAAGGAGGAAGTATTTC - 28320
 - N N T A S W F T A L T Q H G K E L R F
 - I I L R L G S Q L S L S M A R R N L D S
 - * Y C V L V H S S H S A W Q G G T * I P
 28321 - CCTCGAGGCCAGGGCGTTCCAATCAACACCAATAGTGGTCCAGATGACCAAATTGGCTAC - 28380
 - P R G Q G V P I N T N S G P D D Q I G Y
 - L E A R A F Q S T P I V V Q M T K L A T
 - S R P G R S N Q H Q * W S R * P N W L L
 28381 - TACCGAAGAGCTACCCGACGAGTTCGTGGTGGTGACGGCAAATGAAAGAGCTCAGCCCC - 28440
 - Y R R A T R R V R G G D G K M K E L S P
 - T E E L P D E F V V V T A K * K S S A P
 - P K S Y P T S S W W * R Q N E R A Q P Q
 28441 - AGATGGTACTTCTATTACCTAGGAAGTGGCCAGAAGCTTCACTTCCCTACGGCGCTAAC - 28500
 - R W Y F Y Y L G T G P E A S L P Y G A N
 - D G T S I T * E L A Q K L H F P T A L T
 - M V L L L P R N W P R S F T S L R R * Q
 28501 - AAAGAAGGCATCGTATGGGTTGCAACTGAGGGAGCCTTGAATACACCCAAAGACCACATT - 28560
 - K E G I V W V A T E G A L N T P K D H I
 - K K A S Y G L Q L R E P * I H P K T T L
 - R R H R M G C N * G S L E Y T Q R P H W

FIG. 11 Con't

28561 - GGCACCCGCAATCCTAATAACAATGCTGCCACCGTGCTACAACCTCCTCAAGGAACAACA - 28620
 - G T R N P N N N A A T V L Q L P Q G T T
 - A P A I L I T M L P P C Y N F L K E Q H
 - H P Q S * * Q C C H R A T T S S R N N I
 28621 - TTGCCAAAAGGCTTCTACGCAGAGGGAAGCAGAGGCGGCAGTCAAGCCTCTTCTCGCTCC - 28680
 - L P K G F Y A E G S R G G S Q A S S R S
 - C Q K A S T Q R E A E A A V K P L L A P
 - A K R L L R R G K Q R R Q S S L F S L L
 28681 - TCATCACGTAGTCGCGGTAATTCAAGAAATTCACCTGGCAGCAGTAGGGGAAATTCT - 28740
 - S S R S R G N S R N S T P G S S R G N S
 - H H V V A V I Q E I Q L L A A V G E I L
 - I T * S R * F K K F N S W Q Q * G K F S
 28741 - CCTGCTCGAATGGCTAGCGGAGGTGGTGAAACTGCCCTCGCGCTATTGCTGCTAGACAGA - 28800
 - P A R M A S G G G E T A L A L L L L D R
 - L L E W L A E V V K L P S R Y C C * T D
 - C S N G * R R W * N C P R A I A A R Q I
 28801 - TTGAACCAGCTTGAGAGCAAAGTTTCTGGTAAAGGCCAACAACAAGGCCAAACTGTC - 28860
 - L N Q L E S K V S G K G Q Q Q Q G Q T V
 - * T S L R A K F L V K A N N N K A K L S
 - E P A * E Q S F W * R P T T T R P N C H
 28861 - ACTAAGAAATCTGCTGCTGAGGCATCTAAAAAGCCTCGCCAAAACGTACTGCCACAAAA - 28920
 - T K K S A A E A S K K P R Q K R T A T K
 - L R N L L L R H L K S L A K N V L P Q N
 - * E I C C * G I * K A S P K T Y C H K T
 28921 - CAGTACAACGTCACTCAAGCATTGGGAGACGTGGTCCAGAACAAACCCAAGGAAATTC - 28980
 - Q Y N V T Q A F G R R G P E Q T Q G N F
 - S T T S L K H L G D V V Q N K P K E I S
 - V Q R H S S I W E T W S R T N P R K F R
 28981 - GGGGACCAAGACCTAATCAGACAAGGAAGTATTACAAACATTGGCCGCAAATTCACAA - 29040
 - G D Q D L I R Q G T D Y K H W P Q I A Q
 - G T K T * S D K E L I T N I G R K L H N
 - G P R P N Q T R N * L Q T L A A N C T I
 29041 - TTTGCTCCAAGTGCTCTGCATTCTTTGGAATGTACGCATTGGCATGGAAGTCACACCT - 29100
 - F A P S A S A F F G M S R I G M E V T P
 - L L Q V P L H S L E C H A L A W K S H L
 - C S K C L C I L W N V T H W H G S H T F
 29101 - TCGGGAACATGGCTGACTTATCATGGAGCCATTAAATTGGATGACAAAGATCCACAATTC - 29160
 - S G T W L T Y H G A I K L D D K D P Q F
 - R E H G * L I M E P L N W M T K I H N S
 - G N M A D L S W S H * I G * Q R S T I Q
 29161 - AAAGACAACGTCATACTGCTGAACAAGCACATTGACGCATACAAAACATTCCCACCAACA - 29220
 - K D N V I L L N K H I D A Y K T F P P T
 - K T T S Y C * T S T L T H T K H S H Q Q
 - R Q R H T A E Q A H * R I Q N I P T N R
 29221 - GAGCCTAAAAAGGACAAAAAGAAAAGACTGATGAAGCTCAGCCTTTGCCGCAGAGACAA - 29280
 - E P K K D K K K K T D E A Q P L P Q R Q
 - S L K R T K R K R L M K L S L C R R D K
 - A * K G Q K E K D * * S S A F A A E T K
 29281 - AAGAAGCAGCCCACTGTGACTCTTCTTCTGCGGCTGACATGGATGATTTCTCCAGACAA - 29340
 - K K Q P T V T L L P A A D M D D F S R Q
 - R S S P L * L F F L R L T W M I S P D N
 - E A A H C D S S S C G * H G * F L Q T T
 29341 - CTTCAAAATTCATGAGTGGAGCTTCTGCTGATTCAACTCAGGCATAAACACTCATGATG - 29400
 - L Q N S M S G A S A D S T Q A * T L M M
 - F K I P * V E L L L I Q L R H K H S * *
 - S K F H E W S F C * F N S G I N T H D D

FIG. 11 Con't

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29401 - ACCACACAAGGCAGATGGGCTATGTAAACGTTTTTCGCAATTCCGTTTACGATACATAGTC - 29460
      - T T Q G R W A M * T F S Q F R L R Y I V
      - P H K A D G L C K R F R N S V Y D T * S
      - H T R Q M G Y V N V F A I P F T I H S L
29461 - TACTCTTGTGCAGAATGAATTCTCGTAACTAAACAGCACAAAGTAGGTTTAGTTAACTTTA - 29520
      - Y S C A E * I L V T K Q H K * V * L T L
      - T L V Q N E F S * L N S T S R F S * L *
      - L L C R M N S R N * T A Q V G L V N F N
29521 - ATCTCACATAGCAATCTTTAATCAATGTGTAAACATTAGGGAGGACTTGAAAGAGCCACCA - 29580
      - I S H S N L * S M C N I R E D L K E P P
      - S H I A I F N Q C V T L G R T * K S H H
      - L T * Q S L I N V * H * G G L E R A T T
29581 - CATTTTCATCGAGGCCACGCGGAGTACGATCGAGGGTACAGTGAATAATGCTAGGGAGAG - 29640
      - H F H R G H A E Y D R G Y S E * C * G E
      - I F I E A T R S T I E G T V N N A R E S
      - F S S R P R G V R S R V Q * I M L G R A
29641 - CTGCCTATATGGAAGAGCCCTAATGTGTAAAATTAATTTTAGTAGTGCTATCCCCATGTG - 29700
      - L P I W K S P N V * N * F * * C Y P H V
      - C L Y G R A L M C K I N F S S A I P M *
      - A Y M E E P * C V K L I L V V L S P C D
29701 - ATTTTAATAGCTTCTTAGGAGAATGACAAAAAAAAAAAAAAAAA - 29742
      - I L I A S * E N D K K K K K X
      - F * * L L R R M T K K K K X
      - F N S F L G E * Q K K K K X

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FIG. 11 Con't

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1 - TTTTTTTTTTTTTTTTGTCAATTCTCCTAAGAAGCTATTAAAATCACATGGGGATAGCACTA - 60
- F F F F F V I L L R S Y * N H M G I A L
- F F F F L S F S * E A I K I T W G * H Y
- F F F F C H S P K K L L K S H G D S T T
61 - CTAAAATTAATTTTACACATTAGGGCTCTTCCATATAGGCAGCTCTCCCTAGCATTATTC - 120
- L K L I L H I R A L P Y R Q L S L A L F
- * N * F Y T L G L F H I G S S P * H Y S
- K I N F T H * G S S I * A A L P S I I H
121 - ACTGTACCCTCGATCGTACTCCGCGTGGCCTCGATGAAAATGTGGTGGCTCTTTCAAGTC - 180
- T V P S I V L R V A S M K M W W L F Q V
- L Y P R S Y S A W P R * K C G G S F K S
- C T L D R T P R G L D E N V V A L S S P
181 - CTCCCTAATGTTACACATTGATTAAAGATTGCTATGTGAGATTAAAGTTAACTAAACCTA - 240
- L P N V T H * L K I A M * D * S * L N L
- S L M L H I D * R L L C E I K V N * T Y
- P * C Y T L I K D C Y V R L K L T K P T
241 - CTTGTGCTGTTTGTAGTTACGAGAATTCATTCTGCACAAGAGTAGACTATGTATCGTAAACG - 300
- L V L F S Y E N S F C T R V D Y V S * T
- L C C L V T R I H S A Q E * T M Y R K R
- C A V * L R E F I L H K S R L C I V N G
301 - GAATTGCGAAAACGTTTACATAGCCCATCTGCCTTGTGTGGTCATCATGAGTGTTTATGC - 360
- E L R K R L H S P S A L C G H H E C L C
- N C E N V Y I A H L P C V V I M S V Y A
- I A K T F T * P I C L V W S S * V F M P
361 - CTGAGTTGAATCAGCAGAAGCTCCACTCATGGAATTTTGAAGTTGTCTGGAGAAATCATC - 420
- L S * I S R S S T H G I L K L S G E I I
- * V E S A E A P L M E F * S C L E K S S
- E L N Q Q K L H S W N F E V V W R N H P
421 - CATGTCAGCCGCAGGAAGAAGAGTCACAGTGGGCTGCTTCTTTTGTCTCTGCGGCAAAGG - 480
- H V S R R K K S H S G L L L S L R Q R
- M S A A G R R V T V G C F F C L C G K G
- C Q P Q E E E S Q W A A S F V S A A K A
481 - CTGAGCTTCATCAGTCTTTTCTTTTGTCTTTTGTAGGCTCTGTTGGTGGGAATGTTTT - 540
- L S F I S L F L F V L F R L C W W E C F
- * A S S V F F F L S F L G S V G G N V L
- E L H Q S F S F C P F * A L L V G M F C
541 - GTATGCGTCAATGTGCTTGTTCAGCAGTATGACGTTGTCTTTGAATTGTGGATCTTTGTC - 600
- V C V N V L V Q Q Y D V V F E L W I F V
- Y A S M C L F S S M T L S L N C G S L S
- M R Q C A C S A V * R C L * I V D L C H
601 - ATCCAATTTAATGGCTCCATGATAAGTCAGCCATGTTCCCGAAGGTGTGACTTCCATGCC - 660
- I Q F N G S M I S Q P C S R R C D F H A
- S N L M A P * * V S H V P E G V T S M P
- P I * W L H D K S A M F P K V * L P C Q
661 - AATGCGTGACATTCCAAAGAATGCAGAGGCACTTGGAGCAAATTGTGCAATTTGCGGCCA - 720
- N A * H S K E C R G T W S K L C N L R P
- M R D I P K N A E A L G A N C A I C G Q
- C V T F Q R M Q R H L E Q I V Q F A A N
721 - ATGTTTGTAAATCAGTTCCTTGTCTGATTAGGTCTTGGTCCCCGAAATTTTCTTGGGTTTG - 780
- M F V I S S L S D * V L V P E I S L G L
- C L * S V P C L I R S W S P K F P W V C
- V C N Q F L V * L G L G P R N F L G F V
781 - TTCTGGACCACGTCTCCCAAATGCTTGAGTGACGTTGTACTGTTTTGTGGCAGTACGTTT - 840
- F W T T S P K C L S D V V L F C G S T F
- S G P R L P N A * V T L Y C F V A V R F
- L D H V S Q M L E * R C T V L W Q Y V F

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FIG. 12

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841 - TTGGCGAGGCTTTTTAGATGCCTCAGCAGCAGATTTCTTAGTGACAGTTTGGCCTTGTTG - 900
    - L A R L F R C L S S R F L S D S L A L L
    - W R G F L D A S A A D F L V T V W P C C
    - G E A F * M P Q Q Q I S * * Q F G L V V
901 - TTGTTGGCCTTTACCAGAACTTTGCTCTCAAGCTGGTTCAATCTGTCTAGCAGCAATAG - 960
    - L L A F T R N F A L K L V Q S V * Q Q *
    - C W P L P E T L L S S W F N L S S S N S
    - V G L Y Q K L C S Q A G S I C L A A I A
961 - CGCGAGGGCAGTTTACCACCTCCGCTAGCCATTGAGCAGGAGAATTTCCCCTACTGCT - 1020
    - R E G S F T T S A S H S S R R I S P T A
    - A R A V S P P P L A I R A G E F P L L L
    - R G Q F H H L R * P F E Q E N F P Y C C
1021 - GCCAGGAGTTGAATTTCTTGAATTACCGCGACTACGTGATGAGGAGCGAGAAGAGGCTTG - 1080
    - A R S * I S * I T A T T * * G A R R G L
    - P G V E F L E L P R L R D E E R E E A *
    - Q E L N F L N Y R D Y V M R S E K R L D
1081 - ACTGCCGCTCTGCTTCCCTCTGCGTAGAAGCCTTTTGGCAATGTTGTTCTTGAGGAAG - 1140
    - T A A S A S L C V E A F W Q C C S L R K
    - L P P L L P S A * K P F G N V V P * G S
    - C R L C F P L R R S R L L A M L F L E E V
1141 - TTGTAGCACGGTGGCAGCATTGTTATTAGGATTGCGGGTGCCAATGTGGTCTTTGGGTGT - 1200
    - L * H G G S I V I R I A G A N V V F G C
    - C S T V A A L L L G L R V P M W S L G V
    - V A R W Q H C Y * D C G C Q C G L W V Y
1201 - ATTC AAGGCTCCCTCAGTTGCAACCCATACGATGCCTTCTTTGTTAGCGCCGTAGGGAAG - 1260
    - I Q G S L S C N P Y D A F F V S A V G K
    - F K A P S V A T H T M P S L L A P * G S
    - S R L P Q L Q P I R C L L C * R R E V
1261 - TGAAGCTTCTGGGCCAGTTCCTAGGTAATAGAAGTACCATCTGGGGCTGAGCTCTTTCAT - 1320
    - * S F W A S S * V I E V P S G A E L F H
    - E A S G P V P R * * K Y H L G L S S F I
    - K L L G Q F L G N R S T I W G * A L S F
1321 - TTTGCCGTCAACCACGAACCTCGTCGGGTAGCTCTTCGGTAGTAGCCAATTTGGTCATC - 1380
    - F A V T T T N S S G S S S V V A N L V I
    - L P S P P R T R R V A L R * * P I W S S
    - C R H H H E L V G * L F G S S Q F G H L
1381 - TGGACCACTATTGGTGTGATTGGAACGCCCTGGCCTCGAGGGAATCTAAGTTCCTCCTT - 1440
    - W T T I G V D W N A L A S R E S K F L L
    - G P L L V L I G T P W P R G N L S S S L
    - D H Y W C * L E R P G L E G I * V P P C
1441 - GCCATGCTGAGTGAGAGCTGTGAACCAAGACGAGTATTATTGGGTAAACCTTGGGGTTCG - 1500
    - A M L S E S C E P R R S I I G * T L G S
    - P C * V R A V N Q D A V L L G K P W G R
    - H A E * E L * T K T Q Y Y W V N L G V G
1501 - GCGCTGTTTTGGCCTTGCCCCATTGCGTCTCCATTCTGGTTATTGTCAGTTGAATCTGT - 1560
    - A L F W P C P I A S S I L V I V S * I C
    - R C F G L A P L R P P F W L L S V E S V
    - A V L A L P H C V L H S G Y C Q L N L W
1561 - GGGTCCACCAAATGTAATGCGGGGGGCACTACGTTGGTTTGATTGGGGTCCATTATCAGA - 1620
    - G S T K C N A G G T T L V * L G S I I R
    - G P P N V M R G A L R W F D W G P L S D
    - V H Q M * C G G H Y V G L I G V H Y Q T
1621 - CATTTTAATTTGTTGTTTATTTAAACAACAAGTACGTCTCTAAATGCAGCAGTTTGGT - 1680
    - H F N L F V Y L K Q Q V R L * M Q Q F G
    - I L I C S F I * N N K Y V S K C S S L V
    - F * F V R L F K T T S T S L N A A V W *

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FIG. 12 Con't

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1681 - GACCTTCATGAAGGTACCAACACCTAGCTATAAGCGCACCACCAGCTGGATCTTGACAGT - 1740
      - D L H E G T N T * L * A H H Q L D L D S
      - T F M K V P T P S Y K R T T S W I L T V
      - P S * R Y Q H L A I S A P P A G S * Q L
1741 - TGATAGTAACATTAGGTGTGCATGTTTGAACCATAGTGTGCCATCTATGAAAAGGTAAAA - 1800
      - * * * H * V C M F E P * C A I Y E K V K
      - D S N I R C A C L N H S V P S M K R * N
      - I V T L G V H V * T I V C H L * K G K T
1801 - CCTTTCCTAGAGCACAAAGCCAAGCAGTGCTATAAGTATTACCCCTAGTGTGTACCTTA - 1860
      - P F L E H K A K Q C Y K Y Y P * C C T L
      - L S * S T K P S S A I S I T P S V V P Y
      - F P R A Q S Q A V L * V L P L V L Y L T
1861 - CAAGGATCTTCAAGCACATGAGGTTTATTAGATGCACAGCGCTGTACTACAGTGCATATG - 1920
      - Q G S S S T * G L L D A Q R C T T V H M
      - K D L Q A H E V Y * M H S A V L Q C I C
      - R I F K H M R F I R C T A L Y Y S A Y A
1921 - CAACTGCATAGAGAAATACAAGTCAAAACAATGAGAAGTTTCATGTTTCGTTTAGACTTTG - 1980
      - Q L H R E I Q V K T M R S F M F V * T L
      - N C I E K Y K S K Q * E V S C S F R L W
      - T A * R N T S Q N N E K F H V R L D F G
1981 - GTACAAGTTCTTCTAGATCCTGGATTTTCGAGTGAAAACCAAATATAATAAGCATTATT - 2040
      - V Q G S S R S W I S S E N Q N I I S I I
      - Y K V L L D P G F R V K T K I * * A L L
      - T R F F * I L D F E * K P K Y N K H Y *
2041 - AAAACAAGGAATAGCAGAAAGGCTAAAAAGCACAAATAGAAGTCAATTAAAGTGAGCTCA - 2100
      - K T R N S R K A K K H K * K S I K V S S
      - K Q G I A E R L K S T N R S Q L K * A H
      - N K E * Q K G * K A Q I E V N * S E L I
2101 - TTCATTCTGTCTTCTCTTAATGGTGAAGCAAAGTATTAAAAATACTAGAGCAGCAACAA - 2160
      - F I L S F S * W * S K V L K I L E Q Q Q
      - S F C L S L N G E A K Y * K Y * S S N N
      - H S V F L L M V K Q S I K N T R A A T M
2161 - TGAGAAAAAGTGGCGAGTAGAGCTCTTGTTGAACCTCCTCTGTCTGATGAAAAGTTTGTG - 2220
      - * E K V A S R A L V E P P L V * * K V L
      - E K K W R V E L L L N L L L S D E K F W
      - R K S G E * S S C * T S S C L M K S F G
2221 - GTGAAACTGATCTTGCACGCAGCTGATAGGTATGTGAGTACCGTCAGCACAAAGCAAAAG - 2280
      - V K L I L H A A D R Y V E Y R Q H K Q K
      - * N * S C T Q L I G M S S T V S T S K S
      - E T D L A R S * * V C R V P S A Q A K A
2281 - CAAAGTGTGTGCTAGTGCAAGTTAGTGCAAATTTATTGTGAGCAAGAGGGTGAATGGTG - 2340
      - Q S V C * C K L V Q I Y C Q Q E G E M V
      - K V C A S A S * C K F I V S K R V K W *
      - K C V L V Q V S A N L L S A R G * N G E
2341 - AATTGCCCTCGTATGTTTCTGATGGGCAAGGTTCTTTTAGTAGTACAGTCGTACCTCTAA - 2400
      - N C P R M F L M G K V L L V V Q S Y L *
      - I A L V C S * W A R F F * * Y S R T S N
      - L P S Y V P D G Q G S F S S T V V P L T
2401 - CACACTCCTGATAGTGATATAGCTCGCAAGATGTAAATACAATCAATGTCAGGAAGAGAA - 2460
      - H T P D S D I A R K M * I Q S M S G R E
      - T L L I V I * L A R C K Y N Q C Q E E N
      - H S * * * Y S S Q D V N T I N V R K R I
2461 - TAATTTTCATGTTTCGTTTATGGATAATCTAACTCCATAGGTTCTTCATCATCTAACTCC - 2520
      - * F S C S F Y G * S N S I G S S S S N S
      - N F H V R F M D N L T P * V L H H L T P
      - I F M F V L W I I * L H R F F I I * L R

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FIG. 12 Con't

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2521 - GAATAATTCTTCTTAGTTAGAGGCTTAAATAATTGTCTCACTATTGAACTTATTATAACG - 2580
- E * F F L V R G L N N C L T I E L I I T
- N N S S * L E A * I I V S L L N L L * R
- I I L L S * R L K * L S H Y * T Y Y N V
2581 - TCAAGATTCCAAATAGCAATCCTGAAAGTCCTCATAATGATAATCAATATCTCTGCTATT - 2640
- S R F Q I A I L K V L I M I I N I S A I
- Q D S K * Q S * K S S * * * S I S L L L
- K I P N S N P E S P H N D N Q Y L C Y C
2641 - GTAACCTGGAAGTCAACAAGATGAAACATCTGTTGTCACTTACTGTACTAGCAAAGCAAT - 2700
- V T W K S T R * N I C C H L L Y * Q S N
- * P G S Q Q D E T S V V T Y C T S K A I
- N L E V N K M K H L L S L T V L A K Q Y
2701 - ATTGTCGTTGCTACCGGCGTGGTCTGTATTTAATTTATAGTTTCCAATACGGTAGCGGTT - 2760
- I V V A T G V V C I * F I V S N T V A V
- L S L L P A W S V F N L * F P I R * R L
- C R C Y R R G L Y L I Y S F Q Y G S G C
2761 - GTATGCAGCAAAACCTGAATCAGTGCCTACACGCTGCGACGCTCCTAATTTGTAATAAGA - 2820
- V C S K T * I S A Y T L R R S * F V I R
- Y A A K P E S V P T R C D A P N L * * E
- M Q Q N L N Q C L H A A T L L I C N K K
2821 - AAGCGTTCGTGATGTAGCCACAGTGTCTCTTTTGGCAGGTCCTAATGTACAGCGCCC - 2880
- K R S * C S H S D L F W Q V L N V T A P
- S V R D V A T V I S F G R S L M S Q R P
- A F V M * P Q * S L L A G P * C H S A L
2881 - TAGGGAGTGTCCGGCCATTGCAAGTGACCACGAATGATCACAGCACCAATGACAAGTTC - 2940
- * G V S G H S Q V T T N D H S T N D K F
- R E C P A I R K * P R M I T A P M T S S
- G S V R P F A S D H E * S Q H Q * Q V H
2941 - ACTTTCCATGAGCGGTCTGGTCACAATTGTCCCCCGGAGAGGCACATTGAGAAGAATGTT - 3000
- T F H E R S G H N C P P E R H I E K N V
- L S M S G L V T I V P R R G T L R R M F
- F P * A V W S Q L S P G E A H * E E C L
3001 - TGTTTCTGGGTTGAATGACCACATTGAGCGGTACGAGCAAACAGCCTGAAGGAAGCAAC - 3060
- C F W V E * P H * A G T S K Q P E G S N
- V S G L N D H I E R V R A N S L K E A T
- F L G * M T T L S G Y E Q T A * R K Q R
3061 - GAAGTAGCTAAGCCACATCAAGCCTACAATACAAGCCATTGCAATCGCAATCCCGCCAGT - 3120
- E V A K P H Q A Y N T S H C N R N P A S
- K * L S H I K P T I Q A I A I A I P P V
- S S * A T S S L Q Y K P L Q S Q S R Q S
3121 - CACCCAATTAATTCTGTAGACAACAGCAAGCACAAAACAAGCAAGTGTTACTGGCCACAA - 3180
- H P I N S V D N S K H K T S K C Y W P Q
- T Q L I L * T T A S T K Q A S V T G H K
- P N * F C R Q Q Q A Q N K Q V L L A T R
3181 - GAGCCAGAGGAAAAACAAGCTTTATTATGTACAAAACCTGTTCCGATTAGAATAGGCAAA - 3240
- E P E E N K L Y Y V Q K P V P I R I G K
- S Q R K T S F I M Y K N L F R L E * A N
- A R G K Q A L L C T K T C S D * N R Q I
3241 - TTGTAGTAACATAATCCAGGCTAGGAATAGGAAACCTATTACTAGGTTCCATTGTTCCAG - 3300
- L * * H N P G * E * E T Y Y * V P L F Q
- C S N I I Q A R N R K P I T R F H C S R
- V V T * S R L G I G N L L L G S I V P G
3301 - GAGTTGTTTAAGCTCCTCAACGGTAATAGTACCGTTGTCTGCCATGATAAGCAATGTTAA - 3360
- E L F K L L N G N S T V V C H D K Q C *
- S C L S S S T V I V P L S A M I S N V K
- V V * A P Q R * * Y R C L P * * A M L K

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FIG. 12 Con't

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3361 - AGTTCCAAACAGAATAATAATAATAGTTAGTTTCGTTTACAGACAGAAAGATCAGGAACCTCCT - 3420
      - S S K Q N N N N S * F V * T R R S G T P
      - V P N R I I I I V S S F R P E D Q E L L
      - F Q T E * * * * L V R L D Q K I R N S F
3421 - TCAGAAGAGTTTCAGATTTTAAACACGCGAGTAGACGTAAACCGTTGGTTTTACTAAACTC - 3480
      - S E E F R F L T R E * T * T V G F T K L
      - Q K S S D F * H A S R R K P L V L L N S
      - R R V Q I F N T R V D V N R W F Y * T H
3481 - ACGTTAACAATATTGCAGCAGTACGCACACAATCGAAGCGCAGTAAGGATGGCTAGTGTG - 3540
      - T L T I L Q Q Y A H N R S A V R M A S V
      - R * Q Y C S S T H T I E A Q * G W L V *
      - V N N I A A V R T Q S K R S K D G * C D
3541 - ACTAGCAAGAATACCACGAAAGCAAGAAAAAGAAGTACGCTATTAACCTATTAACGTACCT - 3600
      - T S K N T T K A R K R S T L L T I N V P
      - L A R I P R K Q E K E V R Y * L L T Y L
      - * Q E Y H E S K K K K Y A I N Y * R T C
3601 - GTTCTCTCCGAAACGAATGAGTACATAAGTTTCGTA C T C A C T T T C T T G T G C T T A C A A G G C - 3660
      - V S S E T N E Y I S S Y S L S C A Y K G
      - F L P K R M S T * V R T H F L V L T K A
      - F F R N E * V H K F V L T F L C L Q R H
3661 - ACGCTAGTAGTCGTCGTCGCTCATCATAAATGGATCCATTGCTGGATTAGCAACTCCT - 3720
      - T L V V V V G S S * I G S I A G L A T P
      - R * * S S S A H H K L D P L L D * Q L L
      - A S S R R R L I I N W I H C W I S N S *
3721 - GAAGAGCCGTCGATTGTGTGTATTTGCACATTCGGTGGGTCTTTAACAAGCTTGTTAAAG - 3780
      - E E P S I V C I C T F G G S L T S L L K
      - K S R R L C V F A H S V G L * Q A C * R
      - R A V D C V Y L H I R W V F N K L V K D
3781 - ATGAAGAATGTAGCATTTTCAATACCACTGTCTGTAGTAATTTGTGTAGACTCAAGCTGG - 3840
      - M K N V A F S I P V S V V I C V D S S W
      - * R M * H F Q Y Q C L * * F V * T Q A G
      - E E C S I F N T S V C S N L C R L K L V
3841 - TAGTAAACTTCGGTGAAATAGCCATGTACAACGACATAGTCTTTAACACCTGAGTGCCTA - 3900
      - * * T S V K * P C T T T * S L T P E C L
      - S K L R * N S H V Q R H S L * H L S A Y
      - V N F G E I A M Y N D I V F N T * V P I
3901 - TCCTCAGAATAACCACCAATTTGGTAGTCTTCTTTGAGTTTGGTGTGAAATGCCGTCA - 3960
      - S S E * P P I W * S S L S F G V E M P S
      - P Q N N H Q F G S L L * V L V L K C R H
      - L R I T T N L V V F F E F W C * N A V T
3961 - CCTTCAGTAACGACAATTGTATCTGTGACACTGTTATATGGTATACAGTAGTCATAGTTA - 4020
      - P S V T T I V S V T L L Y G I Q * S * L
      - L Q * R Q L Y L * H C Y M V Y S S H S Y
      - F S N D N C I C D T V I W Y T V V I V M
4021 - TGTGTGTGCCAGCAAACAAAGTAGTTGGCATCATAAAGTAATGGGTTCTTGGATTTGCAC - 4080
      - C V C Q Q T K * L A S * S N G F L D L H
      - V C A S K Q S S W H K V M G S W I C T
      - C V P A N K V V G I I K * W V L G F A L
4081 - TTCCAACAAAGCCAACATCTCATAATAATTCTACATGCGTTGATGCATTGTAGAAAATAT - 4140
      - F Q Q S Q H L I I I L H A L M H C R K Y
      - S N K A N I S * * F Y M R * C I V E N I
      - P T K P T S H N N S T C V D A L * K I Y
4141 - ATCAAGGCATAGAGGTACAAAAATTGCGCCTCCTTACCTGCAGCGACAAGCAAAAGATGT - 4200
      - I K A * R Y K N C A S L P A A T S K R C
      - S R H R G T K I A P P Y L Q R Q A K D V
      - Q G I E V Q K L R L L T C S D K Q K M *

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FIG. 12 Con't

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4201 - GAATAGATGGTAACAAATAGCAGCAGTAAATTGCAAATGAACTGGAAGCCCTTATAAAGG - 4260
- E * M V T N S S S K L Q M N W K P L * R
- N R W * Q I A A V N C K * T G S P Y K G
- I D G N K * Q Q * I A N E L E A L I K G
4261 - GCTAGCTGCCATCTTTTATTGAGCGCAATTATTTTGGTAGCGCTCTGAAAAACAGCAAGA - 4320
- A S C H L L L S A I I L V A L * K T A R
- L A A I F Y * A Q L F W * R S E K Q Q E
- * L P S F I E R N Y F G S A L K N S K K
4321 - AATGCAACGCCAATAACAAGCCATCCGAAAGGGAGTGAGGCTTGTAGCGGTATCGTTGCT - 4380
- N A T P I T S H P K G S E A C S G I V A
- M Q R Q * Q A I R K G V R L V A V S L L
- C N A N N K P S E R E * G L * R Y R C C
4381 - GTAGCATGAACAGTACTTGCAGGAGAAGCATTGTCAATTTTTACTGGCTGTGCAGTAATT - 4440
- V A * T V L A G E A L S I F T G C A V I
- * H E Q Y L Q E K H C Q F L L A V Q * L
- S M N S T C R R S I V N F Y W L C S N *
4441 - GATCCAAGAGTAAAAAATCTCATAAACAAATCCATAAGTTTCGTTTATGTGTAATGTAATT - 4500
- D P R V K N L I N K S I S S F M C N V I
- I Q E * K I S * T N P * V R L C V M * F
- S K S K K S H K Q I H K F V Y V * C N L
4501 - TGACACCCTTGAGAACTGGCTCAGAGTCATCCTCATCAAACCTGCAGCAAGAACCACAAG - 4560
- * H P * E L A Q S H P H Q T C S K N H K
- D T L E N W L R V I L I K L A A R T T R
- T P L R T G S E S S S S N L Q Q E P Q E
4561 - AGCATGCACCCTTGAGGCAACTGCAACAACACTAGTCATGCAACAAAGCAAGATTGTAACCA - 4620
- S M H P * G N C N N * S C N K A R L * P
- A C T L E A T A T T S H A T K Q D C N H
- H A P L R Q L Q Q L V M Q Q S K I V T M
4621 - TGACGATGGCAATTAGTCCAGCAATGAAGCCGAGCCAAACATACCAAGGCCATTTAATAT - 4680
- * R W Q L V Q Q * S R A K H T K A I * Y
- D D G N * S S N E A E P N I P R P F N I
- T M A I S P A M K P S Q T Y Q G H L I Y
4681 - ATTGCTCATATTTTCCCAATTCTTGAAGGTCAATGAGTGATTCATTTAAATTTTACGGA - 4740
- I A H I F P I L E G Q * V I H L N F * R
- L L I F S Q F L K V N E * F I * I F S D
- C S Y F P N S * R S M S D S F K F L A T
4741 - CCTCATTGAGGCGGTCAATTTCTTTTGAATGTTGACGACAGAAGCGTTAATGCCTGAAA - 4800
- P H * G G Q F L F E C * R Q K R * C L K
- L I E A V N F F L N V D D R S V N A * N
- S L R R S I S F * M L T T E A L M P E M
4801 - TGTCGCCAAGATCAACATCTGGTGATGTATGATTTTTGAAGTACTTGTCCAGCTCTTCTT - 4860
- C R Q D Q H L V M Y D F * S T C P A L L
- V A K I N I W * C M I F E V L V Q L F F
- S P R S T S G D V * F L K Y L S S S S L
4861 - TGAATGAGTCAAGCTCAGGTTGCAGAGGATCATAAAGTGTGTTGTTAATGATGCCAATAA - 4920
- * M S Q A Q V A E D H K L C C * * C Q *
- E * V K L R L Q R I I N C V V N D A N N
- N E S S S G C R G S * T V L L M M P I T
4921 - CGACATCACAATTTCTTGAGACAAATGTATTGTCTGTAGTAATTATTTGTGGAGAAAAAGA - 4980
- R H H N F L R Q M Y C L * * L F V E K R
- D I T I S * D K C I V C S N Y L W R K E
- T S Q F P E T N V L S V V I I C G E K K
4981 - AGTTCTCTGTGTAATAAACCAAGAAGTGCCATTAAACACAAAAACACCTTCACGAGGGA - 5040
- S S S V * * T K K C H * T Q K H L H E G
- V P L C N K P R S A I K H K N T F T R E
- F L C V I N Q E V P L N T K T P S R G K

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FIG. 12 Con't

5041 - AGTATGCTTTGCCTTCATGACAAATTGCTGGCGCTGTGGTGAAGTTCCTCTCCTGGGATG - 5100
 - S M L C L H D K L L A L W * S S S P G M
 - V C F A F M T N C W R C G E V P L L G W
 - Y A L P S * Q I A G A V V K F L S W D G
 5101 - GCACATACGTGACATGTAGGAAGACAACACCATGCGGGCTGCTTGTGGGAAGGACATAA - 5160
 - A H T * H V G R Q H H A G L L V G R T *
 - H I R D M * E D N T M R G C L W E G H K
 - T Y V T C R K T T P C G A A C G K D I R
 5161 - GGTGGTAGCCCTTTCCACAAAAGTCAACTCTTTTGTATTGTCCAAGAACACACTCAGACA - 5220
 - G G S P F H K S Q L F L I V Q E H T Q T
 - V V A L S T K V N S F * L S K N T L R H
 - W * P F P Q K S T L F D C P R T H S D I
 5221 - TTTTAGTAGCAGCAAGATTAGCAGAAGCCCTGATTTCAGCAGCCCTGATTAGTTGTTGTG - 5280
 - F * * Q Q D * Q K P * F Q Q P * L V V V
 - F S S S K I S R S P D F S S P D * L L C
 - L V A A R L A E A L I S A A L I S C C V
 5281 - TTACATAGGTTTGAAGGCTTTGAAGTCTGCCTGTAATTAACCTGTCAATTTGTACCTCCG - 5340
 - L H R F E G F E V C L * L T C Q F V P P
 - Y I G L K A L K S A C N * P V N L Y L R
 - T * V * R L * S L P V I N L S I C T S A
 5341 - CCTCGACTTTTATCAAGTCGCGAAAGGATATCATTTAGCACACTTGAAATTGCACCAAAAT - 5400
 - P R L Y Q V A K G Y H L A H L K L H Q N
 - L D F I K S R K D I I * H T * N C T K I
 - S T L S S R E R I S F S T L E I A P K L
 5401 - TAGAGCTAAGTTGTTTAAACAAGTGTGTTTAAATGCTTGAGCATTCTGGTTAACAACGCTTT - 5460
 - * S * V V * Q V C L M L E H S G * Q R L
 - R A K L F N K C V * C L S I L V N N V L
 - E L S C L T S V F N A * A F W L T T S C
 5461 - GCAGCTTGCCCAATGCAGTTGATGTTGTTGTAAGTGATTCTTGAATTTGACATATCGCCT - 5520
 - A A C P M Q L M L * V I L E F D * S P
 - Q L A Q C S * C C C K * F L N L T N R L
 - S L P N A V D V V V S D S * I * L I A L
 5521 - TGTTAAATTGGTTGGCGATTGTTTGTGTTTCTCATAGAGAACATTTTGGGTAACCTCAA - 5580
 - C * I G W R F V F G S H R E H F G * L Q
 - V K L V G D L F L V L I E N I L G N S N
 - L N W L A I C F W F S * R T F W V T P M
 5581 - TGCCATTGAACCTATATGCCATTGTCATAGCAAAAGGTATTTGAAGAGCAGCGCCAGCAC - 5640
 - C H * T Y M P F A * Q K V F E E Q R Q H
 - A I E P I C H L H S K R Y L K S S A S T
 - P L N L Y A I C I A K G I * R A A P A P
 5641 - CAAATGTCCATCCAGCAGTGGCAGTACCACTAAGTAGAGCAGCAGTGTAGGCAGCAATCA - 5700
 - Q M S I Q Q W Q Y H * L E Q Q C R Q Q S
 - K C P S S S G S T T N * S S S V G S N H
 - N V H P A V A V P L T R A A V * A A I I
 5701 - TATCATCAGTGAGCAGAGGTGGCAACACTGTAAGTCCATTGAACTTCTGCGCACAAATGA - 5760
 - Y H Q * A E V A T L * V H * T S A H K *
 - I I S E Q R W Q H C K S I E L L R T N E
 - S S V S R G G N T V S P L N F C A Q M R
 5761 - GATCTCTAGCATTAATATCACCTAGGCATTGCGCATATTGCTTCATGAAGCCAGCATCAG - 5820
 - D L * H * Y H L G I R H I A S * S Q H Q
 - I S S I N I T * A F A I L L H E A S I S
 - S L A L I S P R H S P Y C F M K P A S A
 5821 - CGAGTGTACCTTATTAAAGAGCAAGTCCTCAATAAAAGACCTCTTAGTTGGCTTTAGAG - 5880
 - R V S P Y * R A S P Q * K T S * L A L E
 - E C H L I K E Q V L N K R P L S W L * R
 - S V T L L K S K S S I K D L L V G F R G

FIG. 12 Con't

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5881 - GGTCAGGTAATATTTGTGAAAAATTAACCACCAAAATATTTCAAAGTTGGGGTTTTGT - 5940
- G Q V I F V K N * N H Q N I S K L G F C
- V R * Y L * K I ' K T T K I F Q S W G F V
- S G N I C E K L K P P K Y F K V G V L Y
5941 - ACATTTGTTTGAAGTTGAGCGAACACTTCACGTGTGTTGCGATCCTGTTTCAGCAGCAATAC - 6000
- T F V * L E R T L H V C C D P V Q Q Q Y
- H L F D L S E H F T C V A I L F S S N T
- I C L T * A N T S R V L R S C S A A I P
6001 - CTGAGAGTGCACGATTTAGTTGTGTGCAAAAGCTACCATATTGGAGAAGCAAATTAGCAC - 6060
- L R V H D L V V C K S Y H I G E A N * H
- * E C T I * L C A K A T I L E K Q I S T
- E S A R F S C V Q K L P Y W R S K L A H
6061 - ATTCAGTAGAATCTCCGCAGATGTACATATTACAATCTACGGAGGTTTTAGCCATAGAAA - 6120
- I Q * N L R R C T Y Y N L R R F * P * K
- F S R I S A D V H I T I Y G G F S H R N
- S V E S P Q M Y I L Q S T E V L A I E T
6121 - CAGGCATTACTTCTGTAGTAATGCTAATTGAAAAGTTAGTAGGTATAGCAATGGTGTAT - 6180
- Q A L L L * * C * L K S * * V * Q W C Y
- R H Y F C S N A N * K V S R Y S N G V I
- G I T S V V M L I E K L V G I A M V L L
6181 - TAGAGTAAGCAATTGAACTATCAGCACCTAAAGACATAGTATAAGCCACAATAGATTTTT - 6240
- * S K Q L N Y Q H L K T * Y K P Q * I F
- R V S N * T I S T * R H S I S H N R F L
- E * A I E L S A P K D I V * A T I D F W
6241 - GGCTAGTACTACGTAATAAAGAACTGTATGGTAAGTAGCACAAATGCCAGCTCCAATAG - 6300
- G * Y Y V I K K L Y G N * H K C Q L Q *
- A S T T * * R N C M V T S T N A S S N R
- L V L R N K E T V W * L A Q M P A P I G
6301 - GAATGTGCGACTCATAAGAAGTGTGCGATGCTCAGTCCTATAAGACAGCCTGCTTGAG - 6360
- E C R T H K K C R H A Q L L * D S L L E
- N V A L I R S V D M L S S Y K T A C L S
- M S H S * E V S T C S A P I R Q P A * V
6361 - TCTGGAATACATTGTTTCCAGTAGAATATATGCGCCAAGCTGGTGTGAGTTGATCTGCAT - 6420
- S G I H C F Q * N I C A K L V * V D L H
- L E Y I V S S R I Y A P S W C E L I C M
- W N T L F P V E Y M R Q A G V S * S A *
6421 - GAATTGCTGTAGAAACATCAGTGCAGTTAACATCTTGATATAGAACAGCAACTTCAGATG - 6480
- E L L * K H Q C S * H L D I E Q Q L Q M
- N C C R N I S A V N I L I * N S N F R *
- I A V E T S V Q L T S * Y R T A T S D E
6481 - AAGCATTTGTTCCAGGTGTAATTACACTTACACCCCCAAAAGAGCAAGGTGAAATGTCTA - 6540
- K H L F Q V * L H L H P Q K S K V K C L
- S I C S R C N Y T Y T P K R A R * N V *
- A F V P G V I T L T P P K E Q G E M S N
6541 - ATATTTTCAGATGTTTTAGGATCTCGAACGGAATCAGTGAAATCAGAAACATCACGGCCAA - 6600
- I F Q M F * D L E R N Q * N Q K H H G Q
- Y F R C F R I S N G I S E I R N I T A K
- I S D V L G S R T E S V K S E T S R P N
6601 - ATTGTTGAAATGGTTGAAATCTCTTTGAAGAAGGAGTTAACACACCAGTACCAGTGAGTC - 6660
- I V E M V E I S L K K E L T H Q Y Q * V
- L L K W L K S L * R R S * H T S T S E S
- C * N G * N L F E E G V N T P V P V S P
6661 - CATTAAAATTAATGACACACTGGTTCTTAATAAGGTGAGTGATAATTTTGGTCCAC - 6720
- H * N * N * H T G S * * G Q W I I L V H
- I K I K I D T L V L N K V S G * F W S T
- L K L K L T H W F L I R S V D N F G P Q

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FIG. 12 Con't

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6721 - AAACCGTGGCCGGTGCATTAAAAAGTTCAAAAGAAAGTACTACAACCTCTGTAAGGTTGGT - 6780
- K P W P V H L K V Q K K V L Q L C K V G
- N R G R C I * K F K R K Y Y N S V R L V
- T V A G A F K S S K E S T T T L * G W *
6781 - AGCCAATGCCAGTAGTGGTGTAAAAACCATAATCATTTAATGGCCAATAACAATTAAGAG - 6840
- S Q C Q * W C K N H N H L M A N N N * E
- A N A S S G V K T I I I * W P I T I K S
- P M P V V V * K P * S F N G Q * Q L R A
6841 - CAGGTGGGGTGCAAGGTTTGCCATCAGGGGAGAAAGGCACATTAGATATGTCTCTCTCAA - 6900
- Q V G C K V C H Q G R K A H * I C L S Q
- R W G A R F A I R G E R H I R Y V S L K
- G G V Q G L P S G E K G T L D M S L S K
6901 - AGGGCCTAAGCTTGCCATGTCTAAGATACCTATATTTATAATTATAATTACCAGTTGAAG - 6960
- R A * A C H V * D T Y I Y N Y N Y Q L K
- G P K L A M S K I P I F I I I I T S * S
- G L S L P C L R Y L Y L * L * L P V E V
6961 - TAGCATCAATGTTCTAGTATTCCAAGCAAGGACACAACCCATGAAATCATCTGGCAATT - 7020
- * H Q C S * Y S K Q G H N P * N H L A I
- S I N V P S I P S K D T T H E I I W Q F
- A S M F L V F Q A R T Q P M K S S G N L
7021 - TATAATTATAATCAGCAATAACACCAGTTTGTCTGGCGCTATTTGTCTTACATCATCTC - 7080
- Y N Y N Q Q * H Q F V L A L F V L H H L
- I I I I S N N T S L S W R Y L S Y I I S
- * L * S A I T P V C P G A I C L T S S P
7081 - CCTTGACTACAAAAGAATCTGCATAGACATTGGAGAAGCAAAGATCATTCAACTTAGTGG - 7140
- P * L Q K N L H R H W R S K D H S T * W
- L D Y K R I C I D I G E A K I I Q L S G
- L T T K E S A * T L E K Q R S F N L V A
7141 - CAGAAACGCCATAGCACTTAAAGGTTGAAAAAATGTTGAGTTGTAGAGCACAGAGTAAT - 7200
- Q K R H S T * R L K M L S C R A Q S N
- R N A I A L K G * K K C * V V E H R V I
- E T P * H L K V E K N V E L * S T E * S
7201 - CAGCAACACAATTAGAAATTTTTTTTCTCTCCCATGCATAGACAGAAGGGAATTTAGTAG - 7260
- Q Q H N * K F F F S P M H R Q K G I * *
- S N T I R N F F S L P C I D R R E F S S
- A T Q L E I F F L S H A * T E G N L V A
7261 - CATTAAAAACCTCTCCAAAAGGACACAAGTTTGTAAATATTAGGGAATCTCACACATCTC - 7320
- H * K P L Q K D T S L * Y * G I S Q H L
- I K N L S K R T Q V C N I R E S H N I S
- L K T S P K G H K F V I L G N L T T S P
7321 - CTGAGGGAACAACCCCTGAAATTAGAGGTCTGGTAAATTCCTTTGTCAATCTCAAAGCTCT - 7380
- L R E Q P * N * R S G K F L C Q S Q S S
- * G N N P E I R G L V N S F V N L K A L
- E G T T L K L E V W * I P L S I S K L L
7381 - TAACAGAGCATTTGAGTTCAGCAAGTGGATTTTGAGAACAATCAACAGCATCTGTGATTG - 7440
- * Q S I * V Q Q V D F E N N Q Q H L * L
- N R A F E F S K W I L R T I N S I C D C
- T E H L S S A S G F * E Q S T A S V I V
7441 - TACCATTTTCATCATACTTGAGCATAAATGTAGTTGGCTTTAAATAGCCAACAAAATAGG - 7500
- Y H F H H T * A * M * L A L N S Q Q N R
- T I F I I L E H K C S W L * I A N K I G
- P F S S Y L S I N V V G F K * P T K * A
7501 - CTGCAGCTGACGTGCCCCAAATGTCTTGAGCAGGTGAAAAGGCTGTAAGAATGGCTCTAA - 7560
- L Q L T C P K C L E Q V K R L * E W L *
- C S * R A P N V L S R * K G C K N G S K
- A A D V P Q M S * A G E K A V R M A L K

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FIG. 12 Con't

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7561 - AATTTGTAATGTTAATACCAAGAGGCAACTTAAAAATAGGTTTCAAAGTGTTAAACCAG - 7620
      - N L * C * Y Q E A T * K * V S K C * N Q
      - I C N V N T K R Q L K N R * F Q S V K T R
      - F V M L I P R G N L K I G F K V L K P E
7621 - AAGGTAGATCACGAACACTACATCTATAGGTTGATAGCCCTTATAAACATAGAGAAACCCAT - 7680
      - K V D H E L H L * V D S P Y K H R E T H
      - R * I T N Y I Y R L I A L I N I E K P I
      - G R S R T T S I G * * P L * T * R N P S
7681 - CTTTATTTTTTAAACACAAACTCTCGTAAGTGTTTAAATACCTGACTTTTCTGAAACAT - 7740
      - L Y F * T Q T L V S V * N Y L T F L K H
      - F I F K H K L S * V F K I T * L F * N I
      - L F L N T N S R K C L K L P D F S E T S
7741 - CAAGCGAAAAGGCATCAGATATGTACTCGAAAGTGCAATTAAATGCATTATCGAATATCA - 7800
      - Q A K R H Q I C T R K C N * M H Y R I S
      - K R K G I R Y V L E S A I K C I I E Y H
      - S E K A S D M Y S K V Q L N A L S N I I
7801 - TAGTATGTGTCTGTGTACCCATGGGTTTAGAAACAGCAAAGAAAGGGTTGTCACACAATT - 7860
      - * Y V S V Y P W V * K Q Q R K G C H T I
      - S M C L C T H G F R N S K E R V V T Q F
      - V C V C V P M G L E T A K K G L S H N S
7861 - CAAAGTTACATGCTCGTATAACAACATTAGTAGAATTGTTAATAATAATCACCGACTGTG - 7920
      - Q S Y M L V * Q H * * N C * * * S P T V
      - K V T C S Y N N I S R I V N N N H R L *
      - K L H A R I T T L V E L L I I I T D C D
7921 - ACTTGTGTGTTTCATGGTAGAACCAAAAACCCAACCACGGACAACATTTGATTTCTCTGTGG - 7980
      - T C C S W * N Q K P N H G Q H L I S L W
      - L V V H G R T K N P T T D N I * F L C G
      - L L F M V E P K T Q P R T T F D F S V A
7981 - CAGCAAAATAAATACCATCCTTAAAGGTATGACAGGGTTGCCAAACGTATGATTAATAG - 8040
      - Q Q N K Y H P * K V * Q G C Q T Y D * *
      - S K I N T I L K R Y D R V A K R M I N S
      - A K * I P S L K G M T G L P N V * L I V
8041 - TATGAAACCCTGTAACATTAGAATAAAATGGAAGAAATAAATCCTGAGTTAAATAAAGAG - 8100
      - Y E T L * H * N K M E E I N P E L N K E
      - M K P C N I R I K W K K * I L S * I K S
      - * N P V T L E * N G R N K S * V K * R V
8101 - TGTCTGATCTAAAAATTTTCATCAGGATAGTAAACCCCTCATAGATGAAGTATGTTGAG - 8160
      - C L I * K F H Q D S K P P S * M K Y V E
      - V * S K N F I R I V N P P H R * S M L S
      - S D L K I S S G * * T P L I D E V C * V
8161 - TGTAATTAGGAGCTTGAACATCATCAAAGTGGTGCACCGGTCAAGGTCACTACCACTAG - 8220
      - C N * E L E H H Q K W C T G Q G H Y H *
      - V I R S L N I I K S G A P V K V T T T S
      - * L G A * T S S K V V H R S R S L P L V
8221 - TGAGAGTAAGAAATAATAAGAAAATAAACATGTTTCGTTTGTGTTAACAAGAATATCAC - 8280
      - * E * E I I R K * T C S F S C * Q E Y H
      - E S K K * * E N K H V R L V V N K N I T
      - R V R N N K K I N M F V * L L T R I S L
8281 - TTGAAACCACAACCTCTGTTGTTTTCTCTAATGATAAGCCTACCTTTTTCCAGAAGAGAAT - 8340
      - L K P Q L C C F L * * * A Y L F P E E N
      - * N H N S V V F S N D K P T F F Q K R I
      - E T T T L L F S L M I S L P F S R R E *
8341 - AAATCATATCATTGATTTGATTCTCCTTAAGAGACATTACAGCAGTTCCTCTTAATTTAA - 8400
      - K S Y H * F D S P * E T L Q Q F L L I *
      - N H I I D L I L L K R H Y S S S S * F K
      - I I S L I * F S L R D I T A V P L N L R

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FIG. 12 Con't

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8401 - GAGGAAATTTGCTCATGTCAAAGAGTGAATAGGAAGACAACCTGGATAGGATTTGTGTTCC - 8460
- E E I C S C Q R V N R K T T G * D L C S
- R K F A H V K E * I G R Q L D R I C V P
- G N L L M S K S E * E D N W I G F V F L
8461 - TCCAGAAAATGTAGTTAGCATGCATGGTATAGCCATCAATTTGTTCTTCGGCTTGCCAA - 8520
- S R K C S * H A W Y S H Q F V P S A C Q
- P E N V V S M H G I A I N L F L R L A K
- Q K M * L A C M V * P S I C S F G L P R
8521 - GATAGTTAGCCCCAATTA AAAATGCTTCCGATGATGATGCATTTACATTTGTAACAAAAG - 8580
- D S * P Q L K M L P M M M H L H L * Q K
- I V S P N * K C F R * * C I Y I C N K S
- * L A P I K N A S D D D A F T F V T K A
8581 - CTGTCCACCATGAGAAATGGCCCCATAAGCTTGTAAGGTCAGCATTCCAAGAATGCTCTG - 8640
- L S T M R N G P * A C K G Q H S K N A L
- C P P * E M A H K L V K V S I P R M L C
- V H H E K W P I S L * R S A F Q E C S V
8641 - TTATCTTTACAGCTATAGAACCACCCAGGGCTAGTTTTTGCTTTATAAATCCACACAGAT - 8700
- L S L Q L * N H P G L V F A L * I H T D
- Y L Y S Y R T T Q G * F L L Y K S T Q I
- I F T A I E P P R A S F C F I N P H R *
8701 - AAGTGAAAAACCCCTTCTTTAGAGTCATTCTCTTTTGTCACATGTTTGGTCCTAGGGTCAT - 8760
- K * K T L L * S H S L L S H V W S * G H
- S E K P F F R V I L F C H M F G P R V I
- V K N P S L E S F S F V T C L V L G S Y
8761 - ACATATCGCTAATAATAAGGTCCCATTTATTAGCCGTATGTACTGTTGCACAGTCTCCAA - 8820
- T Y R * * * G P I Y * P Y V L L H S L Q
- H I A N N K V P F I S R M Y C C T V S N
- I S L I I R S H L L A V C T V A Q S P I
8821 - TTAAAGTAGAATCTGCGTCGGAGACGAAGTCATTAAGATCTGAATCGACAAGTAGTGTGC - 8880
- L K * N L R R R R S H * D L N R Q V V C
- * S R I C V G D E V I K I * I D K * C A
- K V E S A S E T K S L R S E S T S S V P
8881 - CAGTTGGCAACCATTGTCTGAGCACAGCTGTACCTGGTGCAACTCCTTTATCAGAGCCAG - 8940
- Q L A T I V * A Q L Y L V Q L L Y Q S Q
- S W Q P L S E H S C T W C N S F I R A S
- V G N H C L S T A V P G A T P L S E P A
8941 - CACCAAAGTGAATAACTCTCATGTTGTAGGGTACAGCTAAAGTAAGTGATTTAAGTATT - 9000
- H Q S E * L S C C R V Q L K * V Y L S I
- T K V N N S H V V G Y S * S K C I * V L
- P K * I T L M L * G T A K V S V F K Y *
9001 - GACACAGTTGAGTATACTTTGCGACATTTCATTATTCCTTTTGGTATAACAGCATT - 9060
- D T V E Y T L R H S S L F L L V * Q H F
- T Q L S I L C D I H H Y S F W Y N S I F
- H S * V Y F A T F I I I P F G I T A F S
9061 - CACCATAATTCTGAAGGTCACACTTTTCAAGAAGCATTCTTTGCATCTTGTACAAGTTAG - 9120
- H H N S E G H T F Q E A F F A S C T S *
- T I I L K V T L F K K H S L H L V Q V R
- P * F * R S H F S R S I L C I L Y K L G
9121 - GCATCGCAACACCTGGTTGCCACGCTTGACTTGCTTGTAGTTTTGGGTAGAAGGTTTCAA - 9180
- A S Q H L V A T L D L L V V L G R R F Q
- H R N T W L P R L T C L * F W V E G F N
- I A T P G C H A * L A C S F G * K V S T
9181 - CATGTCCATCCTTACACCAAAGCATGAATGAAATTTTCAGCATAGTCAATTGTAACCTTGA - 9240
- H V H P Y T K A * M K F Q H S Q L * P *
- M S I L T P K H E * N F S I V N C N L D
- C P S L H Q S M N E I S A * S I V T L T

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FIG. 12 Con't

9241 - CCACTTTTGAATCACTGACAAATCTTGTGACTTTATTATCTCGACAAAGTCATCAAGTA - 9300
 - P L L K S L T N L V T L L S R Q S H Q V
 - H F * N H * Q I L * L Y Y L D K V I K *
 - T F E I T D K S C D F I I S T K S S S K
 9301 - AAAGATCAATCACAGAACACACACATTTTGTGAACTGTTTGCATCTGTTATGAAGT - 9360
 - K D Q S Q N T H I L M N L F A H L L * S
 - K I N H R T H T F * * T C L R I C Y E V
 - R S I T E H T H F D E P V C A S V M K *
 9361 - AATTTTTCCTGTGCTGTCCATAGGGATAAAATCCTCTAATTTAAGTGGTGAATCTTGTG - 9420
 - N F S L C C P * G * N P L I * V V N L V
 - I F H C A V H R D K I L * F K W * I L *
 - F F T V L S I G I K S S N L S G E S C E
 9421 - AGCGCTTGGCTAAGCCTATCATTAAATGAAGACCGCCAAGTTGTCCATGACTGAAATCTC - 9480
 - S A W L S L S L N E D R Q V V H D * N L
 - A L G * A Y H * M K T A K L S M T E I S
 - R L A K P I I K * R P P S C P * L K S P
 9481 - CATAAACGATGTGTTTGAAGGCATAGCCCTCGAGCTTATATCGCTGTATGAATTCATCCA - 9540
 - H K R C V R R H S P R A Y I A V * I H P
 - I N D V F E G I A L E L I S L Y E F I H
 - * T M C S K A * P S S L Y R C M N S S I
 9541 - TAGCGAGCTCGAGAAAGTCAGTTTCCATTGTGATCTGGGCTTAAATCCTCTAAGTCTC - 9600
 - * R A R E S Q F P F V I W A * N P L S L
 - S E L E K V S F H L * S G L K I L * V S
 - A S S R K S V S I C D L G L K S S K S L
 9601 - TGCTCTGAGTAAAGTAGGTTTCAGGCAACTGTTGAATAATGCCGTCTACTTTCTTAAAGT - 9660
 - C S E * S R F Q A T V E * C R L L S * S
 - A L S K V G F R Q L L N N A V Y F L K V
 - L * V K * V S G N C * I M P S T F L K *
 9661 - AGTTAACTGTGTTTTTACTGATTCTCCAATTAATGTGACTCCATTGACGTAGCTTGTG - 9720
 - S * T V F L L I L Q L M * L H * R * L V
 - V K L C F Y * F S N * C D S I D A S L C
 - L N C V F T D S P I N V T P L T L A C A
 9721 - CTGGTCCCTTTGAAGGTGTTAGACCTTTGACTGAACCTTCTGTTATTAACACCATTA - 9780
 - L V P L K V L D L * L N L L L L K H H Y
 - W S L * R C * T F D * T F C Y * N T I T
 - G P F E G V R P L T E P S V I K T P L R
 9781 - GGGCGTTTCTAAAAAGGTCTACCTGTCCTTCCACTCTACCATCAAACAAGACAGTAAGT - 9840
 - G R F * K G L P V L P L Y H Q T R Q * V
 - G V S K K V Y L S F H S T I K Q D S K *
 - A F L K R S T C P S T L P S N K T V S E
 9841 - AAGAACAAGCACTCTCAGTAGGTTTCTTGGCAATGTGATCATTGTGCAGACACCTATTG - 9900
 - K N K H S Q * V S W Q C Q S L C R H L L
 - R T S T L S R F L G N V S H C A D T Y C
 - E Q A L S V G F L A M S V I V Q T P I V
 9901 - TAGATACATGTGCTGGGGCTTCTCTTTTGTAGTCCCAGATTACAGTATTAGCAGCGATAT - 9960
 - * I H V L G L L F C S P R L Q Y * Q R Y
 - R Y M C W G F S F V V P D Y S I S S D I
 - D T C A G A S L L * S Q I T V L A I S
 9961 - CAACACCCAAATTATTGAGTATCTTAATCTCTGGCACTGGTTTAATGTTACGCTTAGCCC - 10020
 - Q H P N Y * V S * S L A L V * C Y A * P
 - N T Q I I E Y L N L W H W F N V T L S P
 - T P K L L S I L I S G T G L M L R L A Q
 10021 - AAAGCTCAAATGCAACATTAACAGGAAGTGTGTCTTATTTTCAAAGATCTCCACATCAA - 10080
 - K A Q M Q H * Q E V L S Y F Q R S P H Q
 - K L K C N I N R K C C L I F K D L H I N
 - S S N A T L T G S V V L F S K I S T S I

FIG. 12 Con't

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10081 - TACCATCTACCTTTGTGTAAACAGCATTATTAATGATGGAAACAGGTGCTTCGCCGGCGT - 10140
- Y H L P L C K Q H Y * * W K Q V L R R R
- T I Y L C V N S I I N D G N R C F A G V
- P S T F V * T A L L M M E T G A S P A C
10141 - GTCCATCAAAGTGTCTTTATTAACAACATTATAAGCCACATTTTCTAAACTCTGTAACC - 10200
- V H Q S V L Y * Q H Y K P H F L N S V T
- S I K V S F I N N I I S H I F * T L * P
- P S K C P L L T T L * A T F S K L C N L
10201 - TGGTAAATGTATTCCACAGGTTATAAGTATCAAATGTTTGTAATCCATAGGCTAAATC - 10260
- W * M Y S T G Y K Y Q I V C K S I G * I
- G K C I P Q V I S I K L F V N P * A K S
- V N V F H R L * V S N C L * I H R L N P
10261 - CAGCAGAAATCATCATATTATATGCATCCAAGTACTGTCTGGTACTCATTTCATGGGTGTC - 10320
- Q Q K S S Y Y M H P S T V G T H L H G V
- S R N H H I I C I Q V L S V L I C M V S
- A E I I I L Y A S K Y C R Y S F A W C L
10321 - TGCAAACAGCACCTAAATTGCATCGTGTAAATACACGTAGCAGATTTGAGTGGAAACAT - 10380
- C K Q H H L N C I V * Y T * Q I * V E H
- A N S T T * I A S C N T R S R F E W N I
- Q T A P P K L H R V I H V A D L S G T *
10381 - AATCAATATCCGACACTACTTGTTCATGAGACTCACAAGGACTATCAGAATAGTAAA - 10440
- N Q Y P T L L V C H E T H K D Y Q N S K
- I N I R H Y L F A M R L T R T I R I V K
- S I S D T T C L P * D S Q G L S E * * K
10441 - AGAAAGGCAATTGCTTTAAATTAGTAAATGCACTTTTATCGAAAGCTGGAGTGTGGAATG - 10500
- R K A I A L N * * M H F Y R K L E C G M
- E R Q L L * I S K C T F I E S W S V E C
- K G N C F K L V N A L L S K A G V W N A
10501 - CATGCTTATTCACATACAACTACCACCATCACAGCCTGGTAAGTTCAAGTTTGACAAGA - 10560
- H A Y S H T N Y H H S L V S S S L T R
- M L I H I Q T T T I T A W * V Q V * Q D
- C L F T Y K L P P S Q P G K F K F D K T
10561 - CTCTTGTGTCAAACCTACACACAATTGCATTGGCTGGGTAACGATCAACGTTACAATTCC - 10620
- L L C Q T Y T Q L H W L G N D Q R Y N S
- S C V K P T H N C I G W V T I N V T I P
- L V S N L H T I A L A G * R S T L Q F Q
10621 - AAAACAAACAAACACCATCAGTGAATTTATCGTGATGTGTAGCATAAGAATAGAAGT - 10680
- K T N K H H Q * I Y R D V * H K N R R V
- K Q T N T I S E F I V M C S I R I E E F
- N K Q T P S V N L S * C V A * E * K S S
10681 - CCTCTATTTTGTAAAGCTTTGTCACTACATGGCTGAGCATCGTAGAACTTCCATTCTACTT - 10740
- P L F C K L C H Y M A E H R R T S I L L
- L Y F V S F V T T W L S I V E L P F Y F
- S I L * A L S L H G * A S * N F H S T S
10741 - CAGCCTGAGGCACACACTTGATAGCCTTTGGATTTCCAATGTCATGAAGAACTGGAACT - 10800
- Q P E A H T * * P L D F Q C H E E L E T
- S L R H T L D S L W I S N V M K N W K L
- A * G T H L I A F G F P M S * R T G N L
10801 - TATCAGCAAGCAATGCAGACTTCACAACCATGTGTTGTACTTTTCTGCAAGCAGAATTAA - 10860
- Y Q Q A M Q T S Q P C V V L F C K Q N *
- I S K Q C R L H N H V L Y F S A S R I N
- S A S N A D F T T M C C T F L Q A E L T
10861 - CCCTCAGTTCATCTCCTATAATAGGGTATTCAACAGACCAATCAACGCGCTTAACAAAGC - 10920
- P S V H L L * * G I Q Q T N Q R A * Q S
- P Q F I S Y N R V F N R P I N A L N K A
- L S S S P I I G Y S T D Q S T R L T K H

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FIG. 12 Con't

10921 - ACTCATGGACTGCTAAACATCTAGTCATGATAGCATCACAACCTAGCCACATGTGCATTTTC - 10980
 - T H G L L N I * S * * H H N * P H V H F
 - L M D C * T S S H D S I T T S H M C I S
 - S W T A K H L V M I A S Q L A T C A F P
 10981 - CATGTACCTGGCAATGTTGGTCATGGTTACTCTGAAGGTTACCCGTAAAGCCCCACTGCT - 11040
 - H V P G N V G H G Y S E G Y P * S P T A
 - M Y L A M L V M V T L K V T R K A P L L
 - C T W Q C W S W L L * R L P V K P H C *
 11041 - GAACATCAATCATAAATGGGTTATAGACATAGTCAAAACCCACAGAATGATTCCAGCAGG - 11100
 - E H Q S * M G Y R H S Q N P Q N D S S R
 - N I N H K W V I D I V K T H R M I P A G
 - T S I I N G L * T * S K P T E * F Q Q A
 11101 - CATAAGTATCTGATGAAGTAGAAAAGCAAGTTGCACGTTTGTACACAGACAACACGTTTC - 11160
 - H K Y L M K * K S K L H V C H T D N T F
 - I S I * * S R K A S C T F V T Q T T R S
 - * V S D E V E K Q V A R L S H R Q H V L
 11161 - TTTTCAGGTCCAATCTTGACAAAGTACTTCATTGATGTAAGCTCAAAGCCATGCGCCCAAA - 11220
 - F Q V Q S * Q S T S L M * A Q S H A P K
 - F R S N L D K V L H * C K L K A M R P K
 - S G P I L T K Y F I D V S S K P C A Q R
 11221 - GGACGAACACGACTCTGTCTGACAATCCTTTTCAGTGTATCACTGAGCATTGTACTATCT - 11280
 - G R T R L C L T I L S V Y H * A F V L S
 - D E H D S V * Q S F Q C I T E H L Y Y L
 - T N T T L S D N P F S V S L S I C T I L
 11281 - TAATACGCACTACATTCCAGGGCAAGCCTTTATACATGAGTGGTATAAGATGTTTAAACT - 11340
 - * Y A L H S R A S L Y T * V V * D V * T
 - N T H Y I P G Q A F I H E W Y K M F K L
 - I R T T F Q G K P L Y M S G I R C L N W
 11341 - GGTCACCTGGTGGAGGTTTTGCATTAACTCTGGTGAATTCTGTGTTATTTTCAGTGTCAA - 11400
 - G H L V E V L H * L W * I L C Y F Q C Q
 - V T W W R F C I N S G E F C V I F S V N
 - S P G G G F A L T L V N S V L F S V S T
 11401 - CATAACCAGTCGGTACAGCTACTAAGTTAACACCTGTAGAAAATCCTAGCTGGAGAGGTA - 11460
 - H N Q S V Q L L S * H L * K I L A G E V
 - I T S R Y S Y * V N T C R K S * L E R *
 - * P V G T A T K L T P V E N P S W R G R
 11461 - GGTTAGTACCCACAGCATCTCTAGTTGCATGACAGCCCTCTACATCAAAGCCAATCCACG - 11520
 - G * Y P Q H L * L H D S P L H Q S Q S T
 - V S T H S I S S C M T A L Y I K A N P R
 - L V P T A S L V A * Q P S T S K P I H A
 11521 - CACGAACGTGACGAATAGCTTCTTCGCGGGTGATAAACATATTAGGGTAACCATTGACTT - 11580
 - H E R D E * L L R G * * T Y * G N H * L
 - T N V T N S F F A G D K H I R V T I D L
 - R T * R I A S S R V I N I L G * P L T W
 11581 - GGTAATTCATTTTGAAACCCATCATAGAGATGAGTCTACGGTAGGTCATGTCCTTTGGTA - 11640
 - G N S F * N P S * R * V Y G R S C P L V
 - V I H F E T H H R D E S T V G H V L W Y
 - * F I L K P I I E M S L R * V M S F G M
 11641 - TGCCTGGTATGTCAACACATAATCCTTCAGTCTTGAATTTTATATCAACGCTGAGGTGTG - 11700
 - C L V C Q H I I L Q S * I L Y Q R * G V
 - A W Y V N T * S F S L E F Y I N A E V C
 - P G M S T H N P S V L N F I S T L R C V
 11701 - TAGGTGCCTGTGTAGGATGAAGACCAGTAATGATCTTACTACAGTCCTTAAAAAGTCCAG - 11760
 - * V P V * D E D Q * * S Y Y S P * K V Q
 - R C L C R M K T S N D L T T V L K K S S
 - G A C V G * R P V M I L L Q S L K S P V

FIG. 12 Con't


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11761 - TTACATTTTCTGCTTGTAAATGTAGCCACATTGCGACGTGGTATTTCTAGACTTGTAATT - 11820
      - L H F L L V M * P H C D V V F L D L * I
      - Y I F C L * C S H I A T W Y F * T C K L
      - T F S A C N V A T L R R G I S R L V N C
11821 - GCAGTTTGTCAAAAGATCTCTATCAGACATTATGCACAAAATGCCAATTTTGGCCCTTG - 11880
      - A V C H K D L Y Q T L C T K C Q F L P L
      - Q F V I K I S I R H Y A Q N A N F C P C
      - S L S * R S L S D I M H K M P I F A L V
11881 - TGATAGCCACATTGAAGCGGTTGACATTACAAGAGTGTGCTGTTTCAGTAGTTTGTGTGA - 11940
      - * * P H * S G * H Y K S V L F Q * F V *
      - D S H I E A V D I T R V C C F S S L C E
      - I A T L K R L T L Q E C A V S V V C V N
11941 - ATATGACATAGTCATATTCAGAACCCCTGTGATGAATCAACAGTCTGCGTAGGCAATCCTA - 12000
      - I * H S H I Q N P V M N Q Q S A * A I L
      - Y D I V I F R T L * * I N S L R R Q S *
      - M T * S Y S E P C D E S T V C V G N P K
12001 - AGATTTTTGAAGCTACAGCGTTCGTGAATTATAAGGTGAGATAAAAACAGCTTTTCTCC - 12060
      - R F L K L Q R S V N Y K V R * K Q L F S
      - D F * S Y S V L * I I R * D K N S F S P
      - I F E A T A F C E L * G E I K T A F L Q
12061 - AAGCAGGATTGCGTGTAAAGAAATTCTCTTACAACGCCTATTTGAGGTCTGTTGATTGCAG - 12120
      - K Q D C V * E I L L Q R L F E V C * L Q
      - S R I A C K K F S Y N A Y L R S V D C R
      - A G L R V R N S L T T P I * G L L I A D
12121 - ATGAAACATCATGTGTAATAACACCTTTGTAGAACATTTTGAAGCATTGAGCTGACTTAT - 12180
      - M K H H V * * H L C R T F * S I E L T Y
      - * N I M C N N T F V E H F E A L S * L I
      - E T S C V I T P L * N I L K H * A D L S
12181 - CCTTGTGTGCTTTTAGCTTATTGTCAAACTAAAGCACTCACAGTGTCAACAATTTTCAG - 12240
      - P C V L L A Y C H K L K H S Q C Q Q F Q
      - L V C F * L I V I N * S T H S V N N F S
      - L C A F S L L S * T K A L T V S T I S A
12241 - CAGGACAACGGCGACAAGTTCCAAGGAACATGTCTGGACCTATTGTTTTCATAGTCTGC - 12300
      - Q D N G D K F Q G T C L D L L F S * V C
      - R T T A T S S K E H V W T Y C F H K S A
      - G Q R R Q V P R N M S G P I V F I S L H
12301 - ACACTGAATTAATAATTCTGGTTCTAGTGTGCCTTTAGTCAGCAATGTGCGGGGGGCTG - 12360
      - T L N * N I L V L V C L * S A M C G G L
      - H * I K I F W F * C A F S Q Q C A G G W
      - T E L K Y S G S S V P L V S N V R G A G
12361 - GTAATTGAGCAGGATCGCCAATATAGACGTAGTGTTCACGAAGTCTAGCATTGACAA - 12420
      - V I E Q D R Q Y R R S V L H E V * H * Q
      - * L S R I A N I D V V F C T K S S I D N
      - N * A G S P I * T * C F A R S L A L T T
12421 - CACTCAAGTCATAATTAGTAGCCATAGAGATTTTCATCAAAGACTACAATGTCAGCAGTTG - 12480
      - H S S H N * * P * R F H Q R L Q C Q Q L
      - T Q V I I S S H R D F I K D Y N V S S C
      - L K S * L V A I E I S S K T T M S A V V
12481 - TTTCTGGCAATGCATTTACAGTGCAGAAAACATACTGTTCTAGTGTGAATTCATTTGA - 12540
      - F L A M H L Q C R K H T V L V L N S L *
      - F W Q C I Y S A E N I L F * C * I H F E
      - S G N A F T V Q K T Y C S S V E F T L N
12541 - ATTTATCAAAACACTCTACGCGCGCAGCGCAGGTATGATTCTACTACATTTATCTATGG - 12600
      - I Y Q N T L R A H A Q V * F Y Y I Y L W
      - F I K T L Y A R T R R Y D S T T F I Y G
      - L S K H S T R A R A G M I L L H L S M G

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FIG. 12 Con't

12601 - GCAAATATTTTAAATGCCTTTTCACATAGGGCATCAACAGCTGCATGAGAGCATGCCGTAT - 12660
 - A N I L M P F H I G H Q Q L H E S M P Y
 - Q I F * C L F T * G I N S C M R A C R I
 - K Y F N A F S H R A S T A A * E H A V Y
 12661 - ACACATATGCGAGCAGATGGGTAATAGAGAGCAAGTCCGATGGCAAATGACTCTTACCAG - 12720
 - T L C E Q M G N R E Q V R W Q N D S Y Q
 - H Y A S R W V I E S K S D G K M T L T S
 - T M R A D G * * R A S P M A K * L L P V
 12721 - TACCAGGTGGTCCTTGGAGTGTAGAGTACTTTTGCATGCCGACCTTTTGATAATTTGCAA - 12780
 - Y Q V V L G V * S T F A C R P F D N L Q
 - T R W S L E C R V L L H A D L L I I C N
 - P G G P W S V E Y F C M P T F * * F A T
 12781 - CATTGCTAGAAAACCTCATCTGAGATGTTGAGTGTGGGTACAAGCCAGTAATTCTCACAT - 12840
 - H C * K T H L R C * V L G T S Q * F S H
 - I A R K L I * D V E C W V Q A S N S H I
 - L L E N S S E M L S V G Y K P V I L T *
 12841 - AGTGCTCTTGTGGCACTAGAGTAGGTGCTAAGTGGCATTACAGTGTGAGATGTCAACA - 12900
 - S A L V A L E * V H * V A L Q C E M S T
 - V L L W H * S R C T K W H Y S V R C Q H
 - C S C G T R V G A L S G I T V * D V N T
 12901 - CAAAGTAATCACCAACATTCAACTTGTATGTCGTAGTACCTCTGTACACAACAGCATCAC - 12960
 - Q S N H Q H S T C M S * Y L C T Q Q H H
 - K V I T N I Q L V C R S T S V H N S I T
 - K * S P T F N L Y V V V P L Y T T A S P
 12961 - CATAGTCACCTTTTCAAAGGTGTACTCTCCAATCTGTACTTTACTATTTTGTAGTTACAC - 13020
 - H S H L F Q R C T L Q S V L Y Y F * L H
 - I V T F F K G V L S N L Y F T I F S Y T
 - * S P F S K V Y S P I C T L L F L V T R
 13021 - GGTAACCAGTAAAGACATAGTTTCTGTTCAATGGTGGTCTAGGTTTCCAACCTCCCATG - 13080
 - G N Q * R H S F C S M V V * V F Q P P M
 - V T S K D I V S V Q W W S R F S N L P *
 - * P V K T * F L F N G G L G F P T S H E
 13081 - AAAGATGCAATTCTCTGTGCAGAGAGTACTTCGCGTACAGTGGCAATACCATATGACAGCT - 13140
 - K D A I L C Q R V L R V Q W Q Y H M T A
 - K M Q F S V R E Y F A Y S G N T I * Q L
 - R C N S L S E S T S R T V A I P Y D S L
 13141 - TAAATGTTTCCTCAGTGGCTTTGAGCGTTTCTGCTGCGAAAAGCTTGAGTCTCTCAGTAC - 13200
 - * M F P Q W L * A F L L R K A * V S Q Y
 - K C F L S G F E R F C C E K L E S L S T
 - N V S S V A L S V S A A K S L S L S V Q
 13201 - AAGTGTGGCAAGTATGTAATCGCCAGCATTAGTCCAATCACATGTTGCTATCGCATTGA - 13260
 - K C W Q V C N R Q H * S N H M L L S H *
 - S V G K Y V I A S I S P I T C C Y R I E
 - V L A S M * S P A L V Q S H V A I A L K
 13261 - AGTCAGTGACATTGTCACTGCCTACACATGTGTTTTGTATAAACCAAAAACCTGACCAT - 13320
 - S Q * H C H C L H M C F C I N Q K P D H
 - V S D I V T A Y T C V F V * T K N L T I
 - S V T L S L P T H V F L Y K P K T * P L
 13321 - TAGCACATAATGGAAAACCTAATGGGAGGCTTATGTGACTTGCAATAATAGCTCATACCTC - 13380
 - * H I M E N * W E A Y V T C N N S S Y L
 - S T * W K T N G R L M * L A I I A H T S
 - A H N G K L M G G L C D L Q * * L I P P
 13381 - CTAGATACAGTTGTGTACATCAGTGACATCACAACTGGGGCATTGCAAACATAGGGAT - 13440
 - L D T V V S H Q * H H N L G H C K H R D
 - * I Q L C H I S D I T T W G I A N I G I
 - R Y S C V T S V T S Q P G A L Q T * G L

FIG. 12 Con't

13441 - TAACAGACAACACTAATTTGTGTGATGTTGAAATGACATGGTCATAGCAGCACTTGCAAC - 13500
 - * Q T T L I C V M L K * H G H S S T C N
 - N R Q H * F V * C * N D M V I A A L A T
 - T D N T N L C D V E M T W S * Q H L Q H
 13501 - ATAGGAATGGTCTCCTAATAACAGGCACCGCAACGAAGTGAAGTCTGTGAATTGCACAATA - 13560
 - I G M V S * Y R H R N E V K S V N C T I
 - * E W S P N T G T A T K * S L * I A Q Y
 - R N G L L I Q A P Q R S E V C E L H N T
 13561 - CACAAGCACCTACAGCCTGCAAGACTGTATGTGGTGTGTACATAGCCTCATAAACTCAG - 13620
 - H K H L Q P A R L Y V V C T * P H K T Q
 - T S T Y S L Q D C M W C V H S L I K L R
 - Q A P T A C K T V C G V Y I A S * N S G
 13621 - GTTCCCAGTACCGTGAGGTGTTATCATTAGTTAGCATTACGGAATACATGTCCAACATGT - 13680
 - V P S T V R C Y H * L A L R N T C P T C
 - F P V P * G V I I S * H Y G I H V Q H V
 - S Q Y R E V L S L V S I T E Y M S N M W
 13681 - GGCCAGTAAGCTCATCATGTAACCTTTCTAATGTATTGTAAATACAAGTGAAAGACATCAG - 13740
 - G Q * A H H V T F * C I V N T S E R H Q
 - A S K L I M * L S N V L * I Q V K D I S
 - P V S S S C N F L M Y C K Y K * K T S A
 13741 - CATACTCCTGATTAGGATGTTTGTAAAGTGGGTAAGCATCAATAGCCAGTGACACGAACC - 13800
 - H T P D * D V L * V G K H Q * P V T R T
 - I L L I R M F C K W V S I N S Q * H E P
 - Y S * L G C F V S G * A S I A S D T N L
 13801 - TTTCAATCATAAGTGTACCATCTGTTTGTACAATATCATCGACAAAACAGCCTGCGCCTA - 13860
 - F Q S * V Y H L F * Q Y H R Q N S L R L
 - F N H K C T I C F D N I I D K T A C A *
 - S I I S V P S V L T I S S T K Q P A P N
 13861 - ATATTCTTGATGGATCTGGGTAAGGCAGGTACACGTAATCATCTCCTTGTTTAACTAGCA - 13920
 - I F L M D L G K A G T R N H L L V * L A
 - Y S * W I W V R Q V H V I I S L F N * H
 - I L D G S G * G R Y T * S S P C L T S I
 13921 - TTGTATGCTGTGAGCAAAATTCGTGAGGTCCTTTAGTAAGGTCAGTCTCAGTCCAACATT - 13980
 - L Y A V S K I R E V L * * G Q S Q S N I
 - C M L * A K F V R S F S K V S L S P T F
 - V C C E Q N S * G P L V R S V S V Q H F
 13981 - TTGCCTCAGACATGAACACATTATTTTGATAATAAAGAACTGCCTTAAAGTTCTTAATGC - 14040
 - L P Q T * T H Y F D N K E L P * S S * C
 - C L R H E H I I L I I K N C L K V L N A
 - A S D M N T L F * * * R T A L K F L M L
 14041 - TAGCTACTAAACCTTGAGCCGCATAGTTACTGTTATAGCACACAACGGCATCATCAGAAA - 14100
 - * L L N L E P H S Y C Y S T Q R H H Q K
 - S Y * T L S R I V T V I A H N G I I R K
 - A T K P * A A * L L L * H T T A S S E R
 14101 - GAATCATCATGGAGAAATGTTTACGCAGGTAAGCGTAAAACTCATCCACGAATTCATGAT - 14160
 - E S S W R N V Y A G K R K T H P R I H D
 - N H H G E M F T Q V S V K L I H E F M I
 - I I M E K C L R R * A * N S S T N S * S
 14161 - CAACATCCCTATTTCTATAGAGACACTCATAGAGCCTGTGTTGTAGATTGCGGACATACT - 14220
 - Q H P Y F Y R D T H R A C V V D C G H T
 - N I P I S I E T L I E P V L * I A D I L
 - T S L F L * R H S * S L C C R L R T Y L
 14221 - TGTCAGCTATCTTATTACCATCAGTTGAAAGAAGTGCAATTACATTGGCTGTAACAGCTT - 14280
 - C Q L S Y Y H Q L K E V H L H W L * Q L
 - V S Y L I T I S * K K C I Y I G C N S L
 - S A I L L P S V E R S A F T L A V T A *

FIG. 12 Con't

14281 - GACAAATGTTAAAGACACTATTAGCATAAGCAGTTGTAGCATCACCGGATGATGTTCCAC - 14340
 - D K C * R H Y * H K Q L * H H R M M F H
 - T N V K D T I S I S S C S I T G * C S T
 - Q M L K T L L A * A V V A S P D D V P P
 14341 - CTGGTTTAACATATAGTGAGCCGCCACACATGACCATCTCACTTAATACTTGCGCACACT - 14400
 - L V * H I V S R H T * P S H L I L A H T
 - W F N I * * A A T H D H L T * Y L R T L
 - G L T Y S E P P H M T I S L N T C A H S
 14401 - CGTTAGCTAACCTGTAGAAACGGTGTGATAAGTTACAGCAAGTGTATGTTTGCGAGCAA - 14460
 - R * L T C R N G V I S Y S K C Y V C E Q
 - V S * P V E T V * * V T A S V M F A S K
 - L A N L * K R C D K L Q Q V L C L R A R
 14461 - GAACAAGAGAGGCCATTATCCTAAGCATGTTAGGCATGGCTCTGTCACATTTTGGATAAT - 14520
 - E Q E R P L S * A C * A W L C H I L D N
 - N K R G H Y P K H V R H G S V T F W I I
 - T R E A I I L S M L G M A L S H F G * S
 14521 - CCCAACCCATAAGGTGTGGAGTTTCTACATCACTGTAAACAGTTTTTAACATATTATGCC - 14580
 - P N P * G V E F L H H C K Q F L T Y Y A
 - P T H K V W S F Y I T V N S F * H I M P
 - Q P I R C G V S T S L * T V F N I L C Q
 14581 - AGCCACCGTAAACTTGCTTGTTCCAATTACCACAGTAGCTCCTCTAGTGGCGGCTATTG - 14640
 - S H R K T C L F Q L P Q * L L * W R L L
 - A T V K L A C S N Y H S S S S S G G Y *
 - P P * N L L V P I T T V A P L V A A I D
 14641 - ACTTCAATAATTTCTGATGAACTGTCTATTTGTCATAGTACTACAGATAGAGACACCAG - 14700
 - T S I I S D E T V Y L S * Y Y R * R H Q
 - L Q * F L M K L S I C H S T T D R D T S
 - F N N F * * N C L F V I V L Q I E T P A
 14701 - CTACGGTGCAGCTCTATTCTTTGCTAATGGCATACTTAAGATTCAATTGAGTTATAG - 14760
 - L R C E L Y S L H * W H T * D S F E L *
 - Y G A S S I L C T N G I L K I H L S Y S
 - T V R A L F F A L M A Y L R F I * V I V
 14761 - TAGGGATGACATTACGCTTAGTATACGCGAAAAGTGCATCTTGATCCTCATAACTCATTG - 14820
 - * G * H Y A * Y T R K V H L D P H N S L
 - R D D I T L S I R E K C I L I L I T H *
 - G M T L R L V Y A K S A S * S S * L I E
 14821 - AGTCATAATAAAGTCTAGCCTTACCCCATTTATTAAATGGGAAACCAGCTGATTTATCCA - 14880
 - S H N K V * P Y P I Y * M G N Q L I Y P
 - V I I K S S L T P F I K W E T S * F I Q
 - S * * S L A L P H L L N G K P A D L S R
 14881 - GATTGTTAACGATTACTTGGTTGGCATTAAATACAGCCACCATCGTAACAATCAAAGTATT - 14940
 - D C * R L L G W H * Y S H H R N N Q S I
 - I V N D Y L V G I N T A T I V T I K V F
 - L L T I T W L A L I Q P P S * Q S K Y L
 14941 - TATCAACAACCTTCAACTACGAATAGGAGTTGTCTGATATCACACATTGTTGGCAGATTAT - 15000
 - Y Q Q L Q L R I G V V * Y H T L L A D Y
 - I N N F N Y E * E L S D I T H C W Q I I
 - S T T S T T N R S C L I S H I V G R L *
 15001 - AACGATAATAGTCATAATCACTGATAGCAGCGTTGCCATCCTGAGCAAAGAAGAAGTGTT - 15060
 - N D N S H N H * * Q R C H P E Q R R S V
 - T I I V I I T D S S V A I L S K E E V F
 - R * * S * S L I A A L P S * A K K K C F
 15061 - TTAGTTCAACAGAACTTCCTTCCTTAAAGAAACCTTTAGACACAGCAAAGTCATAAAAGT - 15120
 - L V Q Q N F L P * R N L * T Q Q S H K S
 - * F N R T S F L K E T F R H S K V I K V
 - S S T E L P S L K K P L D T A K S * K S

FIG. 12 Con't

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15121 - CTTTATTAAATTACCGGGTTTGACAGTTTGAAAAGCAACATTGTTTGTAGTGCAGCTA - 15180
- L Y * N Y R V * Q F E K Q H C L L V Q L
- F I K I T G F D S L K S N I V C * C S Y
- L L K L P G L T V * K A T L F V S A A T
15181 - CTGAAAAGCATGTAGTGC GTTTATCTAGCAATAAATTGCCAGAAGCTGCATGCATAGCTG - 15240
- L K S M * C V Y L A I N C Q K L H A * L
- * K A C S A F I * Q * I A R S C M H S W
- E K H V V R L S S N K L P E A A C I A G
15241 - GATCAGCAGCATACTAAAGTTCCTTGAAACTGAGACGCGAGCTATGTAAGTTTACAT - 15300
- D Q Q H T L K V P * N * D A S Y V S L H
- I S S I H * K F L E T E T R A M * V Y I
- S A A Y T K S S L K L R R E L C K F T S
15301 - CCTGATTATGTACGACTCCTAACTCACGAAAATGGTATCCAGTTGAAACAACAAAAGGAA - 15360
- P D Y V R L L T H E N G I Q L K Q Q K E
- L I M Y D S * L T K M V S S * N N K R N
- * L C T T P N S R K W Y P V E T T K G T
15361 - CACCATCTACAAATATTTTTCTTACTAGTGGTCCAAAACCTGTAGGTGGAACACAGTAG - 15420
- H H L Q I F F L L V V Q N L * V E T Q *
- T I Y K Y F S Y * W S K T C R W K H S R
- P S T N I F L T S G P K L V G G N T V E
15421 - AAAATAACACATTAAAGTTTGACAATGAAGGATACACCTATCATCCAAACAGTTAATAC - 15480
- K I T H * S L H N E G Y T Y H P N S * Y
- K * H I K V C T M K D T P I I Q T V N T
- N N T L K F A Q * R I H L S S K Q L I Q
15481 - AATTGGGATGGTATGTCTGGTCCCAATATTTAAAATAACGGTCGAAGAGACAAAAGTCTCT - 15540
- N W D G M S G P N I * N N G R R D K V S
- I G M V C L V P I F K I T V E E T K S L
- L G W Y V W S Q Y L K * R S K R Q S L S
15541 - CTTCCGTAATAATCATATTTAGCAATCCCACTTAATAAGTGGTGGTGGAGATCAGCAT - 15600
- L P * N H I S A N P T * * V V L R D Q H
- F R K I I F Q Q I P L N K W F C E I S I
- S V K S Y F S K S H L I S G F A R S A S
15601 - CCATATGGGACTCAGCAGCCAATGCCCTAGTCAAAGTGAGGATGGGCATCAGCAATGAGT - 15660
- P Y G T Q Q P M P * S K * G W A S A M S
- H M G L S S Q C P S Q S E D G H Q Q * V
- I W D S A A N A L V K V R M G I S N E *
15661 - AATATGAATCCACAATAGGAACCTCCGAGCCTGGTGCTACTTGTACGAAATCACCGAAAT - 15720
- N M N P Q * E L R S L V L L V R N H R N
- I * I H N R N S A A W C Y L Y E I T E I
- Y E S T I G T P Q P G A T C T K S P K S
15721 - CGTACCAGTTCCCATTAAGATCCTGATTATCTAATGTACGTACGCCTACAATGCCTGCAT - 15780
- R T S S H * D P D Y L M S V R L Q C L H
- V P V P I K I L I I * C Q Y A Y N A C I
- Y Q F P L R S * L S N V S T P T M P A S
15781 - CACGCATAGCATCGCAGAATTGTACAGTCTTTAATAATGATTGGCGTACACGCTCACCTA - 15840
- H A * H R R I V Q S L I M I G V H A H L
- T H S I A E L Y S L * * L A Y T L T *
- R I A S Q N C T V F N N D W R T R S P K
15841 - AGTTAGCATATACGCGTAAGATGTCAGGATTCTCTACGAAGTCATACCAATCCTTCTTAT - 15900
- S * H I R V R C Q D S L R S H T N P S Y
- V S I Y A * D V R I L Y E V I P I L L I
- L A Y T R K M S G F S T K S Y Q S F L L
15901 - TGAAATAATCATCATCACAGCAATTGTATGTGACGAGTATTTCTTTTAATGTATCACAAT - 15960
- * N N H H H S N C M * R V F L L M Y H N
- E I I I I T A I V C D E Y F F * C I T I
- K * S S S Q Q L Y V T S I S F N V S Q L

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FIG. 12 Con't

15961 - TACCCTCATCAAAATGACGTAGAGCATAGACTAAATCAGCCATTGTGTATTTAGTTAGAC - 16020
 - Y P H Q N D V E H R L N Q P L C I * L D
 - T L I K M T * S I D * I S H C V F S * T
 - P S S K * R R A * T K S A I V Y L V R R
 16021 - GCTGACGTGATATATGTGGTACCATGTCACCATCTACTCTAAACTTGAAAAAGTCATGGA - 16080
 - A D V I Y V V P C H H L L * T * K S H G
 - L T * Y M W Y H V T I Y S K L E K V M D
 - * R D I C G T M S P S T L N L K K S W T
 16081 - CAGCAACCGCTGGACAATCTTTAACCAAGTTATAAATAGTCTCTTCATGTTGGTAGTTAG - 16140
 - Q Q P L D N L * P S Y K * S L H V G S *
 - S N R W T I F N Q V I N S L F M L V V R
 - A T A G Q S L T K L * I V S S C W * L D
 16141 - ACATAGTATGCCTCTTAACCTACAAAGTAAGAGTCTAATAAATTGCCTTCCTCATCCTTCT - 16200
 - T * Y A S * L Q S K S L I N C L P H P S
 - H S M P L N Y K V R V * * I A F L I L L
 - I V C L L T T K * E S N K L P S S S F S
 16201 - CCTGGAAGCGACAGCAATTAGTTTGTAGGAACCTTGCAAAACCAGCACTTTTTCGTTGT - 16260
 - P G S D S N * F L G T L Q N Q H F F R C
 - L E A T A I S F * E L C K T S T F F V V
 - W K R Q Q L V F R N F A K P A L F S L *
 16261 - AAATATCAAAAGCCCTGTAGACGACATCAGTACTAGTGCCTGTGCCGCACGGTGTAAAGAC - 16320
 - K Y Q K P C R R H Q Y * C L C R T V * D
 - N I K S P V D D I S T S A C A A R C K T
 - I S K A L * T T S V L V P V P H G V R R
 16321 - GGGCTGCACTTACACCGCAAACCGTTTAAAAACGTTGATGCATCCGCAGACTGCATCAA - 16380
 - G L H L H R K P V * K R * C I R R L H Q
 - G C T Y T A N P F K N V D A S A D C I K
 - A A L T P Q T R L K T L M H P Q T A S R
 16381 - GGGTTCGCGGAGTTGGTCACAACCTACAGCCATAACCTTTCCACATTCCGCAGACGGTACA - 16440
 - G F A E L V T T T A I T F P H S A D G T
 - G S R S W S Q L Q P * P F H I P Q T V Q
 - V R G V G H N Y S H N L S T F R R R Y R
 16441 - GACTGTGTTTCTAAGTGTAAACCCACTGGGTCATTAGCACAAAGTGGTAGGTATTTGGAC - 16500
 - D C V S K C K T H W V I S T S G R Y L D
 - T V F L S V K P T G S L A Q V V G I W T
 - L C F * V * N P L G H * H K W * V F G R
 16501 - GTACTTACCTTTCAAGTCACAGAATCCTTTAGGATTGGATGGTCAATGTGGCATCTACA - 16560
 - V L T F Q V T E S F R I W M V N V A S T
 - Y L P F K S Q N P L G F G W S M W H L Q
 - T Y L S S H R I L * D L D G Q C G I Y N
 16561 - ATACAGACAACATGAAGCACCACCAAAGGACTCTTGGTCCATGTTAGCTTCTGGTGTAC - 16620
 - I Q T T * S T T K G L L V H V S F W C Y
 - Y R Q H E A P P K D S W S M L A S G V T
 - T D N M K H H Q R T L G P C * L L V L Q
 16621 - AGTAATTGCCTGTCTGTACCAGTGTGTGTACACAACATCTTCACACAGTTGGTGATTGG - 16680
 - S N C L S C T S V C T Q H L H T V G D W
 - V I A C P V P V C V H N I F T Q L V I G
 - * L P V L Y Q C V Y T T S S H S W * L V
 16681 - TTGTCCTCCACTTGCTAGGTAATCCTTATATGCTTTAGCAGGGTCTACTGCAAAAGCACA - 16740
 - L S S T C * V I L I C F S R V Y C K S T
 - C P P L A R * S L Y A L A G S T A K A Q
 - V L H L L G N P Y M L * Q G L L Q K H R
 16741 - GAAGGAAAGCACAGTTGAATTGGCAGGTACTTCTGTAGCATTTCAGCCTGAAGACGTAC - 16800
 - E G K H S * I G R Y F C S I S S L K T Y
 - K E S T V E L A G T S V A F P A * R R T
 - R K A Q L N W Q V L L * H F Q P E D V L

FIG. 12 Con't

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16801 - TGTAGCAGCTAAACTGCCAGCACCATACTCTATTTAGGTTGTTTAAAGCCTTTGATGAA - 16860
- C S S * T A Q H H T S I * V V * A F D E
- V A A K L P S T I P L F R L F K P L M K
- * Q L N C P A P Y L Y L G C L S L * * S
16861 - GTACAAGTATTTCACTTTAGGCCCTTTTGGTGTGTCTGTAACAAACCTACAAGGTGGTTC - 16920
- V Q V F H F R P F W C V C N K P T R W F
- Y K Y F T L G P F G V S V T N L Q G G S
- T S I S L * A L L V C L * Q T Y K V V P
16921 - CAGTTCTGTGTAAATTGTACCTGTACCATCACTCTTAGGGAATCTAGCCCATTGAGATC - 16980
- Q F C V N C T C T I T L R E S S P F E I
- S S V * I V P V P S L L G N L A H L R S
- V L C K L Y L Y H H S * G I * P I * D L
16981 - TTGGTGGTCTGATAGTAATGCCAGCACAAACCTACCTCCCTTCGAATTGTTATAGTAGGC - 17040
- L V V * * * C Q H K P T S L R I V I V G
- W W S D S N A S T N L P P F E L L * * A
- G G L I V M P A Q T Y L P S N C Y S R Q
17041 - AAGTGCATTGTCATCAGTACAAGCTGTTTGTGTGGTACCAGCCGCACAGGACATCTGTCTG - 17100
- K C I V I S T S C L C G T S R T G H L S
- S A L S S V Q A V C V V P A A Q D I C R
- V H C H Q Y K L F V W Y Q P H R T S V V
17101 - TAGTGCTACTGGACTCAGTTCATTATTCTGTAGTTTAAACAGCTGAGTTGGCTCTTAGAGC - 17160
- * C Y W T Q F I I L * F N S * V G S * S
- S A T G L S S L F C S L T A E L A L R A
- V L L D S V H Y S V V * Q L S W L L E L
17161 - TGTAACAATAAGAGGCCAAGCCAAATTTGGTGAATTGTCCATGTTAATTTCTACTAAGTTG - 17220
- C N N K R P S Q I W * I V H V N F T K L
- V T I R G Q A K F G E L S M L I S L S *
- * Q * E A K P N L V N C P C * F H * V E
17221 - AACAATCTTGCTATCCGCATCAACAACCTTGCTGGATTTCAGAGTGCAGATGCATATGT - 17280
- N N L A I R I N N L D F P E C R C I C
- T I L L S A S T T C W I S Q S A D A Y V
- Q S C Y P H Q Q L A G F P R V Q M H M *
17281 - AAAGGTGTTACCATCACAAGTGTCTTGTAGGTACCATAATCAGGGACAACAACCATGAG - 17340
- K G V T I T S V L V G T I I R D N N H E
- K V L P S Q V F L * V P * S G T T T M S
- R C Y H H K C S C R Y H N Q G Q P * V
17341 - TTTGGCTGCTGTAGTCAATGGTATGATGTTGAGTGGAAACACAACCATCACGCGCATGTT - 17400
- F G C C S Q W Y D V E W N T T I T R I V
- L A A V V N G M M L S G T Q P S R A L L
- W L L * S M V * C * V E H N H H A H C *
17401 - GATAATGTTGTTAAGTGCATCATTATCAAGCTTCCTAAGCATAGTGAAGAGCATGTTTG - 17460
- D N V V K C I I I K L P K H S E E H C L
- I M L L S A S L S S F L S I V K S I V C
- * C C * V H H Y Q A S * A * * R A L F A
17461 - CATAGCACTAGTTACTTTTGGCCCTCTGTCTCAGATCTTGCCTGTTTGTACATTTGGGT - 17520
- H S T S Y F C P L V L R S C L F V H L G
- I A L V T F A L L S S D L A C L Y I W V
- * H * L L L P S C P Q I L P V C T F G S
17521 - CATAGCCTGATCTGCCATCTTTTCCAACCTTGCGTTGCATGGCAGCATCACGGTCAAACCTC - 17580
- H S L I C H L F Q L A L H G S I T V K L
- I A * S A I F S N L R C M A A S R S N S
- * P D L P S F P T C V A W Q H H G Q T Q
17581 - AGATTTAGCCACATTCAAAGATTTCTTTAACTTTTGTGAGAACGACTTCAGAATCACCATT - 17640
- R F S H I Q R F L * L F E N D F R I T I
- D L A T F K D F F N F L R T T S E S P L
- I * P H S K I S L T F * E R L Q N H H *

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FIG. 12 Con't

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17641 - AGCTACAGCCTGCTCATAGGCCTCCTGGGCGAGTGGCATAAGCGGCATATGATGGTAAAGA - 17700
      - S Y S L L I G L L G S G I S G I * W * R
      - A T A C S * A S W A V A * A A Y D G K E
      - L Q P A H R P P G Q W H K R H M M V K N
17701 - ACTAAATTCTGAAGCAATAGCCTGAAGAGTAGCACGGTTATCGAGCATTTCCTCGCACAA - 17760
      - T K F * S N S L K S S T V I E H F L A Q
      - L N S E A I A * R V A R L S S I S S H N
      - * I L K Q * P E E * H G Y R A F P R T T
17761 - CCTATTAATGTCTACAGCACCTGCATGGATAGCAAAACAGACAAAAGAGAAACCATCTT - 17820
      - P I N V Y S T L H G * Q N R Q K R N H L
      - L L M S T A P C M D S K T D K R E T I F
      - Y * C L Q H P A W I A K Q T K E K P S S
17821 - CTCGAAAGCTTCAGTTGTGTCTTTTGAAGAAGAATATCATTGTGGAGTTGTACACATTG - 17880
      - L E S F S C V F C K K N I I V E L Y T L
      - S K A S V V S F A R R I S L W S C T H C
      - R K L Q L C L L Q E E Y H C G V V H I V
17881 - TGCCCACAATTTAGAAGATGACTCTACTCTAAGTTGTTGAAGAACCGAGAGCAGTACCAC - 17940
      - C P Q F R R * L Y S K L L K N R E Q Y H
      - A H N L E D D S T L S C * R T E S S T T
      - P T I * K M T L L * V V E E P R A V P Q
17941 - AGATGTGCACCTTTACGTCAGACATTTTAGACTGTACAGTAGCAACCTTGATACATGGTTT - 18000
      - R C A L Y V R H F R L Y S S N L D T W F
      - D V H F T S D I L D C T V A T L I H G L
      - M C T L R Q T F * T V Q * Q P * Y M V Y
18001 - ACCTCCAATACCCAACAACCTTAATGTTAAGCTTGAAAGCATCAATACTACTCTTAGGAGG - 18060
      - T S N T Q Q L N V K L E S I N T T L R R
      - P P I P N N L M L S L K A S I L L L G G
      - L Q Y P T T * C * A * K H Q Y Y S * E A
18061 - CAAAAGCCCCTGGGAGTTCATATACCTAAATTCTTGTGTAGAGACCAAGTAGTCATAAAC - 18120
      - Q K P L G V H I P K F L C R D Q V V I N
      - K S P W E F I Y L N S C V E T K * S * T
      - K A P G S S Y T * I L V * R P S S H K H
18121 - ACCAAGAGTAAGCCTGAAGTAACGGTTGAGTAAACAGAAAAGGCCAAAGTAGCAGCAGCA - 18180
      - T K S K P E V T V E * T E K A K V A A A
      - P R V S L K * R L S K Q K R P K * Q Q Q
      - Q E * A * S N G * V N R K G Q S S S N
18181 - ACAATAGCCTAAGAAACAATAAACAAGCATGATACACTGTAAGGTGTTGCCAGTAATAAA - 18240
      - T I A * E T I N K H D T L * G V A S N K
      - Q * P K K Q * T S M I H C K V L P V I N
      - N S L R N N K Q A * Y T V R C C Q * * I
18241 - TAACAATGGGTAATACTCAACACACACAAACACTATAGCTCTAGCTAAAAACATGATAGT - 18300
      - * Q W V I L N T H K H Y S S S * K H D S
      - N N G * Y S T H T N T I A L A K N M I V
      - T M G N T Q H T Q T L * L * L K T * * S
18301 - CGTAACGACACCAGAATAGTTAGAGGTTACAGAAATAACTAAGGCCACATGGAAATAGC - 18360
      - R N D T R I V R G Y R N N * G P H G N S
      - V T T P E * L E V T E I T K A H M E I A
      - * R H Q N S * R L Q K * L R P T W K * L
18361 - TTGATCTAAAGCATTACCATAGTAGACTTTGTAAACAAGTGTAAATGACATTTCATCAGTGT - 18420
      - L I * S I T I V D F V N K C N D I H Q C
      - * S K A L P * * T L * T S V M T F I S V
      - D L K H Y H S R L C K Q V * * H S S V S
18421 - CCAAACACGTCTAGCAGCATCATATAAACAGTGCAGCTGTATGAGAATAAGCAAAAC - 18480
      - P N T S S S I I I N S A S C H E N K Q N
      - Q T R L A A S S * T V R A V M R I S K T
      - K H V * Q H H H K Q C E L S * E * A K L

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FIG. 12 Con't


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18481 - TAAAGCTGAAGCATACATAACACAATCCTTAAGCCTATAACCAGACAAGCTAGTGTCAGC - 18540
- * S * S I H N T I L K P I T R Q A S V S
- K A E A Y I T Q S L S L * P D K L V S A
- K L K H T * H N P * A Y N Q T S * C Q P
18541 - CAATTCAAGCCATGTCATGATACGCATCACCCAGCTAGCAGGCATGTAGACCATATTAAA - 18600
- Q F K P C H D T H H P A S R H V D H I K
- N S S H V M I R I T Q L A G M * T I L K
- I Q A M S * Y A S P S * Q A C R P Y * S
18601 - GTAAGCAACTGTTGCAAGAGAAGGTAACAGAAACAAGCACAAGAATGCGTGCTTATGCTT - 18660
- V S N C C K R R * Q K Q A Q E C V L M L
- * A T V A R E G N R N K H K N A C L C L
- K Q L L Q E K V T E T S T R M R A Y A *
18661 - AACAAAGCAGCATAGCACATGCAGCAATTGCCATAATACCAAGAGTAAATGGCAAGAAAGC - 18720
- N K Q H S T C S N C H N T K S K W Q E S
- T S S I A H A A I A I I P R V N G K K A
- Q A A * H M Q Q L P * Y Q E * M A R K H
18721 - ATTCTCGTAAACAAAGAAAAACAGTGACCACTGTGTACTTTGAACAAGAATCAATAGTGA - 18780
- I L V N K E K Q * P L C T L N K N Q * *
- F S * T K K N S D H C V L * T R I N S D
- S R K Q R K T V T T V Y F E Q E S I V M
18781 - TGTCAAGAAAGTTAAAGCATCCAATGATGAGTGCCCTTAACAATTTTCTGAACCTACC - 18840
- C Q E S * K H P M M S A L N N F L E L T
- V K K V K S I Q * * V P L T I F L N L P
- S R K L K A S N D E C P * Q F S * T Y L
18841 - TTGGAAGGTAACACCAGAGCATTGTCTAACAACATCAAATGGTGTAAACTCATCTTCTAA - 18900
- L E G N T R A L S N N I K W C K L I F *
- W K V T P E H C L T T S N G V N S S K
- G R * H Q S I V * Q H Q M V * T H L L K
18901 - AATAGTGCTACCAAGGATAGTACGACCATTCATACCATTCTGCAGCAGCTCTTTCAAAGC - 18960
- N S A T K D S T T I H T I L Q Q L F Q S
- I V L P R I V R P F I P F C S S S F K A
- * C Y Q G * Y D H S Y H S A A A L S K Q
18961 - AGCACACATATCTAAGACGGCAATTCCTGTTGAGCAGAAAGAGGTCCCAATATGTCAAC - 19020
- S T H I * D G N S C L S R K R S Q Y V N
- A H I S K T A I P V * A E R G P N M S T
- H T Y L R R Q F L F E Q K E V P I C Q H
19021 - ATGATCTTGTGTCAAAGGTTTCATAGTTGTACTTCATTGCCACAAGGTTAAAGTCATTCAA - 19080
- M I L C Q R F I V V L H C H K V K V I Q
- * S C V K G S * L Y F I A T R L K S F K
- D L V S K V H S C T S L P Q G * S H S K
19081 - AGTAGTGGTGAATCTATTAAGAAACCACCTATCACCATTGATAACAGCAGCATACAGCCA - 19140
- S S G E S I K K P P I T I D N S S I Q P
- V V V N L L R N H L S P L I T A A Y S H
- * W * I Y * E T T Y H H * * Q Q H T A M
19141 - TGCCAAAACATTTAATGTTATGGTTGTGTCTGTACCTGCAGCCTGTGCAGTTTGTCTGTC - 19200
- C Q N I * C Y G C V C T C S L C S L S V
- A K T F N V M V S V P A A C A V C L S
- P K H L M L W L C L Y L Q P V Q F V C Q
19201 - AACAAATGGACCATAGAATTTACCTTCTAAGTCAGTACCAGCGTGTACTCCTGTTGGAAG - 19260
- N K W T I E F T F * V S T S V Y S C W K
- T N G P * N L P S K S V P A C T P V G S
- Q M D H R I Y L L S Q Y Q R V L L L E A
19261 - CTCCATATGATGCATATAGCAGAAAGACACGCAATCATAATCAATGTTAAACCAACACT - 19320
- L H M M H I A E R H A I I I N V K T N T
- S I * C I * Q K D T Q S * S M L K P T L
- P Y D A Y S R K T R N H N Q C * N Q H Y

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FIG. 12 Con't

19321 - ACCACATGATCCATTAAGGAAAGAACCTTTAATGGTATGATTAGGTCTCATGGCACACTG - 19380
 - T T * S I K E R T F N G M I R S H G T L
 - P H D P L R K E P L M V * L G L M A H *
 - H M I H * G K N L * W Y D * V S W H T D
 19381 - ATAAACACCAGATGGTGAACCATTGTAGCATGCTAGAACTGAAAATGTTTGACCAGGTTG - 19440
 - I N T R W * T I V A C * N * K C L T R L
 - * T P D G E P L * H A R T E N V * P G W
 - K H Q M V N H C S M L E L K M F D Q V G
 19441 - GATACGGACAAAATTTATACTTGGGTGTCTTAGGGTTAGAAGTATCAACTTTAAGCCTAAG - 19500
 - D T D K F I L G C L R V R S I N F K P K
 - I R T N L Y L G V L G L E V S T L S L S
 - Y G Q I Y T W V S * G * K Y Q L * A * A
 19501 - CAGACAATTTTGCATAGAATGGCCAATAACACGAAGTTGAACATTGCCAGCCTGAACAAG - 19560
 - Q T I L H R M A N N T K L N I A S L N K
 - R Q F C I E W P I T R S * T L P A * T R
 - D N F A * N G Q * H E V E H C Q P E Q E
 19561 - AAAGCTATGGTTGGATTGCGAATGAGCAGATCTTCATAGTTAGGATTAAGCATGTCTTC - 19620
 - K A M V G F A N E Q I F I V R I K H V F
 - K L W L D L R M S R S S * L G L S M S S
 - S Y G W I C E * A D L H S * D * A C L L
 19621 - TGCTGTGCAAATGACATGTCTTGGACAGTATACTGTGTGCATCCAACCACAATCCATTAAG - 19680
 - C C A N D M S W T V Y C V I Q P Q S I K
 - A V Q M T C L G Q Y T V S S N H N P L R
 - L C K * H V L D S I L C H P T T I H * E
 19681 - AGTTGTAGTTCCACAGGTTACTTGTACCATGCACCCTTCAACTTTGCCTGACGGGAATGC - 19740
 - S C S S T G Y L Y H A P F N F A * R E C
 - V V V P Q V T C T M H P S T L P D G N A
 - L * F H R L L V P C T L Q L C L T G M P
 19741 - CATTTTCCTAAAACCACTCTGCAGAACAGCAGAAGTGATTGATGTCTGTGGTGGTTGGTA - 19800
 - H F P K T T L Q N S R S D * C L W W L V
 - I F L K P L C R T A E V I D V C G G W *
 - F S * N H S A E Q Q K * L M S V V V G R
 19801 - GAGAACATCAGCACCTGAGTTGCTAAAGTCATTTAGAGCCTTTGCTAAGTGGCAGCAAGC - 19860
 - E N I S T * V A K V I * S L C * V A A S
 - R T S A P E L L K S F R A F A K W Q Q A
 - E H Q H L S C * S H L E P L L S G S K L
 19861 - TGCTTCACGATAGCTGGTAGTATCTAAGGCTCCACTGAAATACTTGTACTTGTATATAG - 19920
 - C F T I A G S I * G S T E I L V L V I *
 - A S R * L V V S K A P L K Y L Y L L Y R
 - L H D S W * Y L R L H * N T C T C Y I E
 19921 - AGCAAGATACCTGTTATACTGTGTAAGTGGCAACAGTGTCTCGCTACGCAATTTTAGGTA - 19980
 - S K I P V I L C K W Q Q C L A T Q F * V
 - A R Y L L Y C V S G N S V S L R N F R Y
 - Q D T C Y T V * V A T V S R Y A I L G T
 19981 - CATTTCTTGTGAGCAAAAAGGTACACAAAGCAGCCTCCTCGAAGGTACTAAATGTAAC - 20040
 - H F L V E Q K G T Q S S L L E G T K C N
 - I S L L S K K V H K A A S S K V L N V T
 - F P C * A K R Y T K Q P P R R Y * M * L
 20041 - TCCATTAAACATGACTCTTTTCCTAAGATAGTTGTTAAAGAACCAATGGCAGTGCTTCAG - 20100
 - S I K H D S F P K I V V K E P M A V L Q
 - P L N M T L F L R * L L K N Q W Q C F R
 - H * T * L F S * D S C * R T N G S A S E
 20101 - AGAAATACAGAATACATAGATTGCTGTTATCCAAAAGGCACAATAGGAGAAAACATGGC - 20160
 - R N T E Y I D C C Y P K R H N R R K H G
 - E I Q N T * I A V I Q K G T I G E N M A
 - K Y R I H R L L L S K K A Q * E K T W Q

FIG. 12 Con't

20161 - AAACCATTGAAGGTGAGCCAAGAATGAAACATCATTGGTGAAATAGAATGTCAAGTACAA - 20220
 - K P L K V S Q E * N I I G E I E C Q V Q
 - N H * R * A K N E T S L V K * N V K Y K
 - T I E G E P R M K H H W * N R M S S T S
 20221 - GTAAAAGACTGAGTAGACTCCCGGCAGAAAGCTGTAAGCTGGTACCAGACAGAGTATAGT - 20280
 - V K D * V D S R Q K A V S W Y Q T E Y S
 - * K T E * T P G R K L * A G T R Q S I V
 - K R L S R L P A E S C K L V P D R V * *
 20281 - GAAAGACATCAAAAACAAAAGTGCATTAGCAGCAACAACATGGTTGTACTCACCAAAAAC - 20340
 - E R H Q K Q K C I S S N N M V V L T K N
 - K D I K N K S A L A A T T W L Y S P K T
 - K T S K T K V H * Q Q Q H G C T H Q K H
 20341 - ACGTCTGAATTTTCATAAAGTAGTAGGCAGCACAAGTCACCAATATGGCAATAATACCACC - 20400
 - T S E F H K V V G S T S H Q Y G N N T T
 - R L N F I K * * A A Q V T N M A I I P P
 - V * I S * S S R Q H K S P I W Q * Y H Q
 20401 - AGCCACTACTGAAGCAGACACATCTAAAGCACCCACAGGTTGCACAAGAGGAGTAAAGAT - 20460
 - S H Y * S R H I * S T H R L H K R S K D
 - A T T E A D T S K A P T G C T R G V K M
 - P L L K Q T H L K H P Q V A Q E E * R C
 20461 - GTTAGCTATGAGATTCATCGCATCAACACCACAGAAAACCTCTGATAGAGCTCTGTAATG - 20520
 - V S Y E I H R I N T T E N S * * S S V M
 - L A M R F I A S T P Q K T P D R A L * C
 - * L * D S S H Q H H R K L L I E L C N A
 20521 - CTCATTATTAAGAACCCATCTACCACTGGTAGATAGGCAAATACCTACTTCTGACCTTTC - 20580
 - L I I K N P S T T G R * A N T Y F * P F
 - S L L R T H L P L V D R Q I P T S D L S
 - H Y * E P I Y H W * I G K Y L L T F R
 20581 - GCATGTACCATGTCTACAGTACTCAGCATCAAAAGTTGTACTACTCTAACAGAACCCTC - 20640
 - A C T M S T V L S I K S C Y Y S N R T L
 - H V P C L Q Y S A S K V V T T L T E P S
 - M Y H V Y S T Q H Q K L L L L * Q N P P
 20641 - CAGGTAAGTGTTAGGAACTGTATGATGGAACCATCCATAAGCACATAACGAGTGTCTGG - 20700
 - Q V S V R K L Y D G T I H K H I T S V W
 - R * V L G N C M M E P S I S T * R V S G
 - G K C * E T V * W N H P * A H N E C L D
 20701 - ACGAAGCTCACTATAAGAAATAGAACCCTCTACCAAATTAGTGTGCATAACAATATGGCAC - 20760
 - T K L T I R N R T L * Q I S V I T I W H
 - R S S L * E I E P S S K L V S * Q Y G T
 - E A H Y K K * N P L A N * C H N N M A Q
 20761 - AGGTTTGCCCATAGCATCCTTAAAAATTGTACACTCAGCAGCAAGAACGCAAGCAGAGGT - 20820
 - R F A H S I L K N C T L S S K N A S R G
 - G L P I A S L K I V H S A A R T Q A E V
 - V C P * H P * K L Y T Q Q Q E R K Q R *
 20821 - AGCAAAATCACTATACTCAATGAGTTTGGAAGGTGTGTAGCAAATGTTGCCAACAGCACT - 20880
 - S K I T I L N E F G R C V A N V A N S T
 - A K S L Y S M S L E G V * Q M L P T A L
 - Q N H Y T Q * V W K V C S K C C Q Q H *
 20881 - AAAAACACGAGGTAGAAAATGCAAGAAGTCACCATTGATTGCTCTCAGCACAGTACCCGG - 20940
 - K N T R * K M Q E V T I D C S Q H S T R
 - K T R G R K C K K S P L I A L S T V P G
 - K H E V E N A R S H H * L L S A Q Y P V
 20941 - TAAGCCAGGCACTATGAAACCAATCTCTTGTAAATGATAGCAGCTACTACAGGGCAGCT - 21000
 - * A R H Y E T N L S C N D S S Y Y R A A
 - K P G T M K P I S L V M I A A T T G Q L
 - S Q A L * N Q S L L * * * Q L L Q G S F

FIG. 12 Con't

21001 - TTTGTCATTTTTGTATGAACCACCACGCTGGCTAAACCATGCGTCAAAACCAGCATGTTT - 21060
 - F V I F V * T T T L A K P C V K T S M F
 - L S F L Y E P P R W L N H A S K P A C L
 - C H F C M N H H A G * T M R Q N Q H V Y
 21061 - ATTTGCAAAACAATCATCAGTAGAAATGATGTCACGAGTGACACCATCCTGAATGGCTTT - 21120
 - I C K T I I S R N D V T S D T I L N G F
 - F A K Q S S V E M M S R V T P S * M A L
 - L Q N N H Q * K * C H E * H H P E W L C
 21121 - GTAACCAATGATTTTCATTTGTGTAACCATCATGGATTGACAATGTATGTACTGGCATAAC - 21180
 - V T N D F I C V T I M D * Q C M Y W H N
 - * P M I S F V * P S W I D N V C T G I T
 - N Q * F H L C N H S H G L T M Y V L A * R
 21181 - GATATAACAAACCAATGCAGCAAGAACGCACAATAATGTGGCCTTAAGCATAAGTTTAAA - 21240
 - D I T N Q C S K N A Q * C G L K H K F K
 - I * Q T N A A R T H N N V A L S I S L K
 - Y N K P M Q Q E R T I M W P * A * V * N
 21241 - ACAAGTACTAACAATCTTACCACCCTTGAGTGAGATTTTAGTAGTTATGACATTGACAAC - 21300
 - T S T N N L T T L E * D F S S Y D I D N
 - Q V L T I L P P L S E I L V V M T L T T
 - K Y * Q S Y H P * V R F * * L * H * Q P
 21301 - CTGTCTAGTTGTAGCACAGTTAGTGTAAGGTATGTTGTTCTTCTTGGCAGCAGTACG - 21360
 - L S S C S T S * C K R Y V V L L G S S T
 - C L V V A Q V S V K G M L F F L A A V R
 - V * L * H K L V * K V C C S S W Q Q Y E
 21361 - AATTTGTTTACGCAGCTGTTTCAGATAAAGACATGTAGTCTTTTACATTCCAGATGAGTGA - 21420
 - N L F T Q L F R * R H V V F Y I P D E *
 - I C L R S C S D K D M * S F T F Q M S E
 - F V Y A A V Q I K T C S L L H S R * V K
 21421 - AACATTGTGACTTTTTGCTACTTGGGCATTGATATGCCTTGCATTACAGTCAATACATGC - 21480
 - N I V T F C Y L G I D M P C I T V N T C
 - T L * L F A T W A L I C L A L Q S I H A
 - H C D F L L L G H * Y A L H Y S Q Y M R
 21481 - GCCAAGATCTCTGGGCGTCATGTTTTCAACCTTATTATAGGTGAGCATGAAATTGTTACA - 21540
 - A K I S G R H V F N L I I G E H E I V T
 - P R S L G V M F S T L L * V S M K L L Q
 - Q D L W A S C F Q P Y Y R * A * N C Y N
 21541 - ACTGTCACCTGTCACTTCTAAGTCAGAGTGATGTGAAAGTTTGAGACATTCAATAACATC - 21600
 - T V T C H F * V R V M * K F E T F N N I
 - L S P V T S K S E * C E S L R H S I T S
 - C H L S L L S Q S D V K V * D I Q * H P
 21601 - CTTTGTGTCAACATCGGTATCAACAACACCTTGTGCGGCAGCTGACACGAATGTAGAAAG - 21660
 - L C V N I G I N N T L S G S * H E C R K
 - F V S T S V S T T P C R A A D T N V E R
 - L C Q H R Y Q Q H L V G Q L T R M * K G
 21661 - GACACCATCTAAAGCTACACCCTTTGCTAACTCGCTGTGAGCTGTAGCAACAAGTGCCCTT - 21720
 - D T I * S Y T L C * L A V S C S N K C L
 - T P S K A T P F A N S L * A V A T S A L
 - H H L K L H P L L T R C E L * Q Q V P *
 21721 - AAGTTTTTCCATAGGAACACTAAAAGTTGCTGAAAAGGTGTCGACATAAGCATCAAACAT - 21780
 - K F F H R N T K S C * K G V D I S I K H
 - S F S I G T L K V A E K V S T * A S N I
 - V F P * E H * K L L K R C R H K H Q T S
 21781 - CTTAACGGAAACTTCAGTACTATCTCCAACGTTTGATACAAGAGCTTGGTCAAGCAACAG - 21840
 - L N G N F S T I S N V * Y K S L V K Q Q
 - L T E T S V L S P T F D T R A W S S N R
 - * R K L Q Y Y L Q R L I Q E L G Q A T E

FIG. 12 Con't

21841 - AATAGGTTGGCACATCAGCTGACTGTAGTACACAGAAGCAGACTTAGAAGCAGACTCGTC - 21900
 - N R L A H Q L T V V H R S R L R S R L V
 - I G W H I S * L * Y T E A D L E A D S S
 - * V G T S A D C S T Q K Q T * K Q T R R
 21901 - GCATTTGGACTTGCCATCAAAAATGACATTAATAGGCAGTGAACCTTTAGTGTGTGTT - 21960
 - A F G L A I K N Y D I N R Q * T F S V V
 - H L D L P S K T M T L I G S E P L V L L
 - I W T C H Q K L * H * * A V N L * C C *
 21961 - AGCTCTCAAATTGTCTAAATTGACAAAATGGGAGAGCGGATGTCTCTCATAGGTCTTTTG - 22020
 - S S Q I V * I D K M G E R M S L I G L L
 - A L K L S K L T K W E S G C L S * V F *
 - L S N C L N * Q N G R A D V S H R S F D
 22021 - ACCAGCCTTGTCAAAGTAGAGGTGAAGCGCGCCATTTTTCACAGCAACACTATCAACAAT - 22080
 - T S L V K V E V K R A I F H S N T I N N
 - P A L S K * R * S A P F F T A T L S T I
 - Q P C Q S R G E A R H F S Q Q H Y Q Q Y
 22081 - ATACGATGACTGGTCAGTAGGGTTGATTGGTCTTTTAAACTGGAGTGACAAATCAGGAGC - 22140
 - I R * L V S R V D W S F K L E * Q I T S
 - Y D D W S V G L I G L L N W S D K S R A
 - T M T G Q * G * L V F * T G V T N H E Q
 22141 - AACTTCATCACTAATGAATGTACTACCACTGCAAAATGTGTCACAATTGAGACAATTCCA - 22200
 - N F I T N E C T T S A K C V T I E T I P
 - T S S L M N V L P V Q N V S Q L R Q F Q
 - L H H * * M Y Y Q C K M C H N * D N S N
 22201 - ATGTGTGAGTCTTGCGAAGCCACGGCTCCATTTGCATAGACATAGAAAGATCTCTTCAT - 22260
 - I V S L A E A T A S I C I D I E R S L H
 - L * V L Q K P R P P F A * T * K D L F M
 - C E S C R S H G L H L H R H R K I S S C
 22261 - GCCATTAAACAATAGTTGTACTCAACGCGTGTGGCAGATTGCGCTTATAGCACATCAT - 22320
 - A I N N S C T L N A C G T I A L I A H H
 - P L T I V V H S T R V A R L R L * H I M
 - H * Q * L Y T Q R V W H D C A Y S T S C
 22321 - GCAAGTGAAGAGGTGCAACCATCCATGATATGAACATAGCTCTTCCATATGTAGTAGAA - 22380
 - A S R R G A T I H D M N I A L P Y V V E
 - Q V E E V Q P S M I * T * L F H M * * K
 - K S K R C N H P * Y E H S S S I C S R K
 22381 - AGAAGCAAAGAAGATGTACATCCTAACCATTGCAGAAACGGGTGCCATTTGTACAATACT - 22440
 - R S K E D V H P N H C R N G C H L Y N T
 - E A K K M Y I L T I A E T G A I C T I L
 - K Q R R C T S * P L Q K R V P F V Q Y *
 22441 - AATGATAAACCACATGAGCCAAGAATTGCTGATGAAATGACTAGCAAAATAGCCAAAGAA - 22500
 - N D K P H E P R I A D E M T S K I A K E
 - M I N H M S Q E L L M K * L A K * P K N
 - * * T T * A K N C * * N D * Q N S Q R T
 22501 - CACCTGCATTATAGCTGAAAGACCTAATAAATAAAAGAATTTGTGAACAACATATATGC - 22560
 - H L H Y S * K T * * I K E F C E Q H I C
 - T C I I A E R P N K * K N F V N N I Y A
 - P A L * L K D L I N K R I L * T T Y M P
 22561 - CAAAACCCACTCAGCGCCAGACCTAAAATTGTCAAGTCTAGCTTGTACGATGAAATCGT - 22620
 - Q N P L S G Q T * N C Q V * L V R * N R
 - K T H S A A R P K I V K S S L Y D E I V
 - K P T Q R P D L K L S S L A C T M K S S
 22621 - CACCTGAATGGTTTCAAGAGCTGGATAAGAATCAAGGGAGTCTAATCCACTTAAACAAAT - 22680
 - H L N G F K S W I R I K G V * S T * T N
 - T * M V S R A G * E S R E S N P L K Q M
 - P E W F Q E L D K N Q G S L I H L N K C

FIG. 12 Con't

22681 - GCTGCAAGGAAAAGAACCTTCACAGAAATCCATAGTAGTAACGTTAGACGAATTAAGATA - 22740
 - A A R K R T F T E I H S S N V R R I K I
 - L Q G K E P S Q K S I V V T L D E L R Y
 - C K E K N L H R N P * * * R * T N * D T
 22741 - CAATTCTCTAACGCCATTACAATAAGAAGGAGCACCAAAATTAGATAAGAGTACACCAA - 22800
 - Q F S N A I T I R R S T K I R * E Y T K
 - N S L T P L Q * E G A P K L D K S T P K
 - I L * R H Y N K K E H Q N * I R V H Q K
 22801 - AGCAGCAGTTACACAGATTAGAGAACCTAAGCAAATACTTAACAACAATAGCCACATAGC - 22860
 - S S S Y T D * R T * A N T * Q Q * P H S
 - A A V T Q I R E P K Q I L N N N S H I A
 - Q Q L H R L E N L S K Y L T T I A T * R
 22861 - GATTGTGAACAATTTAGAAAATTTGGGTGACTTCACATAATTAATGCCGGCATCCAAACA - 22920
 - D C E Q F R K F G * L H I I N A G I Q T
 - I V N N L E N L G D F T * L M P A S K H
 - L * T I * K I W V T S H N * C R H P N I
 22921 - TAATTTAGCAACACTCTTAACACTATTTTGTAGCAATAGTTGTAGGTAGTGAAGCTCTAAT - 22980
 - * F S N T L N T I F S N S C R * * S S N
 - N L A T L L T L F L A I V V G S E A L I
 - I * Q H S * H Y F * Q * L * V V K L * F
 22981 - TCTAGAATTGGTACTTTTGTAGTAAAAGTACACAATTGGAACAATAATGTAAACACATAAGG - 23040
 - S R I G T F S K S T Q L E Q * C K H I R
 - L E L V L L V K V H N W N N N V N T * G
 - * N W Y F * * K Y T I G T I M * T H K A
 23041 - CATATAATTGTTAAACACACGTTGTGCTAATCTCTTAGCGCAATTTGATGTTGTAATTGC - 23100
 - H I I V K H T L C * S L S A I * C C N C
 - I * L L N T R C A N L L A Q F D V V I A
 - Y N C * T H V V L I S * R N L M L * L L
 23101 - TGCTTGTCTAAGAATGGTTTGACATAAGCCAAAATTTTACTCCAAGGAACACTATTAAT - 23160
 - C L S * E W F D I S Q N F T P R N T I N
 - A C P K N G L T * A K I L L Q G T L L I
 - L V L R M V * H K P K F Y S K E H Y * L
 23161 - TGCAGCAATACCATGAGTGGCAATTGTTTTAAACCTAAGGCTAGTGAAGCTCATTAGG - 23220
 - C S N T M S G N C F * T * G * * K L I R
 - A A I P * V A I V F K P K A S E S S L G
 - Q Q Y H E W Q L F L N L R L V K A H * V
 23221 - TTTCTTAATGGTAATGCTTGTGTTTTCCACATAAGCAGCCATAAGATCCTCATGACCTAA - 23280
 - F L N G N A C V F H I S S H K I L M T *
 - F L M V M L V F S T * A A I R S S * P N
 - S * W * C L C F P H K Q P * D P H D L T
 23281 - CTCTTGTGTTACTTTAACACCTTCATCTGATGGTTTAAGTATGACATTGCCTACAACCTC - 23340
 - L L C Y F N T F I * W F K Y D I A Y N F
 - S C V T L T P S S D G L S M T L P T T S
 - L V L L * H L H L M V * V * H C L Q L R
 23341 - GGTAGTTTTACGTCACACTCTATGACTTCCTTCTGTATGGTAGGATTTTCCACTACTTC - 23400
 - G S F H V T L Y D F L L Y G R I F H Y F
 - V V F T S H S M T S F C M V G F S T T S
 - * F S R H T L * L P S V W * D F P L L L
 23401 - TTCAGAGGTGGGTTGTTGACTTTTACAAGCAAGATTGTCCATTCTTGTGTGTCTTCTAC - 23460
 - F R G G L L T F T S K I V H S L C V F Y
 - S E V G C * L S Q A R L S I P C V S S T
 - Q R W V V D F H K Q D C P F L V C L L L
 23461 - TGCCAGAACTTCAAATGAATTTGAAGTATCTACTGGCTTTGTACTCCAAAGACAACGTAA - 23520
 - C Q N F K * I * S I Y W L C T P K T T *
 - A R T S N E F E V S T G F V L Q R Q R K
 - P E L Q M N L K Y L L A L Y S K D N V N

FIG. 12 Con't

23521 - ACACCAAGTGTGTTGGTTTGAACGTTGTCTTGTTGTAGCCTGGTTAATGTGCCAAACAAT - 23580
 - T P S V W F E R C L G C S L V N V P N N
 - H Q V F G L N V V L V V A W L M C Q T I
 - T K C L V * T L S W L * P G * C A K Q L
 23581 - TGGCTTATGCAGTAATTTAGCACCTTTCTTGAAACTCGCTGAATAGTGTCTATAGTCAAT - 23640
 - W L M Q * F S T F L E T R * I V S I V N
 - G L C S N L A P F L K L A E * C L * S I
 - A Y A V I * H L S * N S L N S V Y S Q *
 23641 - AGCCACTACATCGCCATTCAAGTCTGGGAAGAATGTGACAGATAGCTCTCGTGAAGCTGG - 23700
 - S H Y I A I Q V W E E C D R * L S * S W
 - A T T S P F K S G K N V T D S S R E A G
 - P L H R H S S L G R M * Q I A L V K L A
 23701 - CTTTGTGAAGCCTGTCATTTGATTTAAATCATCAGCAAATTTTGTGTTAGAACATGTGAG - 23760
 - L C E A C H L I * I I S K F C V R T C E
 - F V K P V I * F K S S A N F V L E H V S
 - L * S L S F D L N H Q Q I L C * N M * V
 23761 - TTTGAAATTATCAAAACTCGCATTGTTGGTAATGGTTGAGTTGGTACAAGGTCTATAGGCTG - 23820
 - F E I I K T R I W * W L S W Y K V Y R L
 - L K L S K L A F G N G * V G T R S I G C
 - * N Y Q N S H L V M V E L V Q G L * A A
 23821 - CTCTGTATAGTAAGCATTATCCTTTTATAATACCCATCCAATTTTGGTTCAATCTCTGT - 23880
 - L C I V S I I L F I I P I Q F W F N L C
 - S V * * A L S F L * Y P S N F G S I S V
 - L Y S K H Y P F Y N T H P I L V Q S L C
 23881 - GTAAGTAAGTCCATCGAGTTTATACGACACAGGCTTGATGGTTGTAGTGTAAGATGTTTC - 23940
 - V S N S I E F I R H R L D G C S V R C F
 - * V T P S S L Y D T G L M V V V * D V S
 - K * L H R V Y T T Q A * W L * C K M F P
 23941 - CTTGTAGAAAACATCAGTCACTGGTCTTTGTACTCTGACATCTTTGTAAGGTGAGCTCC - 24000
 - L V E N I S H W S F V L * H L C K V S S
 - L * K T S V T G P L Y S D I F V R * A P
 - C R K H Q S L V L C T L T S L * G E L R
 24001 - GTCAATACGATAGAGGGTCTCCTTAGCAGTTATATGAGTGTAATGACCACACTGATAGTT - 24060
 - V N T I E G L L S S Y M S V M T T L I V
 - S I R * R V S L A V I * V * * P H * * L
 - Q Y D R G S P * Q L Y E C N D H T D S Y
 24061 - ACCAGTGTACTCATTCGCACATAAGAATGTACCTTGCTGTAATTTATACTCAGCAGGTGG - 24120
 - T S V L I R T * E C T L L * F I L S R W
 - P V Y S F A H K N V P C C N L Y S A G G
 - Q C T H S H I R M Y L A V I Y T Q Q V V
 24121 - TGCAGACATCATAACAAAAGAAGACTCTTGTTGTACTAGATATTGTGTAGCATCACGACC - 24180
 - C R H H N K R R L L L Y * I L C S I T T
 - A D I I T K E D S C C T R Y C V A S R P
 - Q T S * Q K K T L V V L D I V * H H D H
 24181 - ACACACACATGGAATGGAAACACCTGTCTTAAGATTATCATAAGATAGAGTACCCATATA - 24240
 - T H T W N G N T C L K I I I R * S T H I
 - H T H G M E T P V L R L S * D R V P I Y
 - T H M E W K H L S * D Y H K I E Y P Y T
 24241 - CATCACAGCTTCTACACCCGTTAAGGTAGTAGTTTCTGACCACAATGTTTACACACCAC - 24300
 - H H S F Y T R * G S S F L T T M F T H H
 - I T A S T P V K V V V F * P Q C L H T T
 - S Q L L H P L R * * F S D H N V Y T P H
 24301 - ATTAAGAACTCGCTTTGCAGATTCAAATTAGCATGCTGTAGAAGATGGGTCATAGTTTC - 24360
 - I K N S L C R F Q I S M L * K M G H S F
 - L R T R F A D S K L A C C R R W V I V S
 - * E L A L Q I P N * H A V E D G S * F L

FIG. 12 Con't

24361 - TCTGACATCACCAAGCTCGCCAACAGTTTTATTACTGTAAGCGAGTATGAGTGCACAAAA - 24420
 - S D I T K L A N S F I T V S E Y E C T K
 - L T S P S S P T V L L L * A S M S A Q K
 - * H H Q A R Q Q F Y Y C K R V * V H K S
 24421 - GTTAGCAGCATCACCGACGGGCTCTATAATAAGCCTCTTGAAGTGCTGGTGCATTGAA - 24480
 - V S S I T S T G S I I S L L K C W C I E
 - L A A S P A R A L * * A S * S A G A L N
 - * Q H H Q H G L Y N K P L E V L V H * I
 24481 - TTTGACTTCAAGCTGTTGAAGTGCTAATAAAACACTAGACAAATAACAATTGTTATCAGC - 24540
 - F D F K L L K C * * N T R Q I T I V I S
 - L T S S C * S A N K T L D K * Q L L S A
 - * L Q A V E V L I K H * T N N N C Y Q P
 24541 - CCATTTAATTGAAGTTAAACCACCAACTTGAGGAAATTTCCATTTCTTTGTGTGGTTTAA - 24600
 - P F N * S * T T N L R K F P F L C V V *
 - H L I E V K P P T * G N F H F F V W F K
 - I * L K L N H Q L E E I S I S L C G L K
 24601 - AGCAGACATGTACCTACCAAGAAAACCTCTCATCAAGAGTATGGTAGTACTCGAAAGCTTC - 24660
 - S R H V P T K K T L I K S M V V L E S F
 - A D M Y L P R K L S S R V W * Y S K A S
 - Q T C T Y Q E N S H Q E Y G S T R K L H
 24661 - ACTACGTAGTGTGTCATCACTAGGTAGTACAAAGAAAGTCTTACCCTCATGATTTACATG - 24720
 - T T * C V I T R * Y K E S L T L M I Y M
 - L R S V S S L G S T K K V L P S * F T *
 - Y V V C H H * V V Q R K S Y P H D L H E
 24721 - AGGTTTAATTTTTGTAACATCAGCACCATCCAAGTATGTTGGACCAAACCTGCTGTCCATA - 24780
 - R F N F C N I S T I Q V C W T K L L S I
 - G L I F V T S A P S K Y V G P N C C P Y
 - V * F L * H Q H H P S M L D Q T A V H M
 24781 - TGT CATAGACATATCCACAAGCTGTGTGGAGATTAGTGTGTGCCAGTTGTGAACAC - 24840
 - C H R H I H K L C V E I S V V H S C E H
 - V I D I S T S C V W R L V L S T V V N T
 - S * T Y P Q A V C G D * C C P Q L * T L
 24841 - TTTTATAGTCTTAACCTCCCGCAGGGATAAGAGACTCTTTAGTTTGTCAAGTGAAAGAAC - 24900
 - F Y S L N L P Q G * E T L * F V K * K N
 - F I V L T S R R D K R L F S L S S E R T
 - L * S * P P A G I R D S L V C Q V K E P
 24901 - CTCACCGTCAAGATGAAACTCGACGGGGCTCTCCAGAGTGTGGTACACAATTTTGTCAACC - 24960
 - L T V K M K L D G A L Q S V V H N F V T
 - S P S R * N S T G L S R V W Y T I L S P
 - H R Q D E T R R G S P E C G T Q F C H H
 24961 - ACGCTTAAGAAATTCAACACCTAAGTCTGTACGCTGTCTGAATAGGACCAATCTCTGTA - 25020
 - T L K K F N T * L C T L S * I G P I S V
 - R L R N S T P N S V R C P E * D Q S L *
 - A * E I Q H L T L Y A V L N R T N L C K
 25021 - AGAGCCAGCCAAAGAAACTGTTTCTACAAAGTGCTCCTCAGATGTCTTTGATGACGAAGT - 25080
 - R A S Q R N C F Y K V L L R C L * * R S
 - E P A K E T V S T K C S S D V F D D E V
 - S Q P K K L F L Q S A P Q M S L M T K *
 25081 - GAGGTATCCATTATATGTAGTAACAGCATCTGGTGATGATACTGACACTACGGCAGGAGC - 25140
 - E V S I I C S N S I W * * Y * H Y G R S
 - R Y P L Y V V T A S G D D T D T T A G A
 - G I H Y M * * Q H L V M I L T L R Q E L
 25141 - TTTAAGAGAACGCATACAGCGCGCAGCCTCTTCAAGATTAAAACCATGTGTACATAACC - 25200
 - F K R T H T A R S L F K I K T M C H I T
 - L R E R I Q R A A S S R L K P C V T * P
 - * E N A Y S A Q P L Q D * N H V S H N Q

FIG. 12 Con't


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25201 - AATTGGCATTGTGACAAGCGGCTCATTTAGAGAGTTTCAGCTTCGTAATAATAGAAGCTAC - 25260
      - N W H C D K R L I * R V Q L R N N R S Y
      - I G I V T S G S F R E F S F V I I E A T
      - L A L * Q A A H L E S S A S * * * K L Q
25261 - AGGCTCTTTACTAGTATAAAAGAAGAATCGGACACCATAGTCAACGATGCCCTCTTGAAT - 25320
      - R L F T S I K E E S D T I V N D A L L N
      - G S L L V * K K N R T P * S T M P S * I
      - A L Y * Y K R R I G H H S Q R C P L E F
25321 - TTTAATTCCTTTTATACTTACGTTGGATGGTTGCCATTATGGCTCTAACATCCATGCATAT - 25380
      - F N S F I L T L D G C H Y G S N I H A Y
      - L I P L Y L R W M V A I M A L T S M H I
      - * F L Y T Y V G W L P L W L * H P C I *
25381 - AGGCATTAATTTTCTTGTCTCTTCAGCATGAGCAAGCATTCTCTCAAATTCAGGATAC - 25440
      - R H * F S C L F S M S K H F S Q I P G Y
      - G I N F L V S S A * A S I S L K F Q D T
      - A L I F L S L Q H E Q A F L S N S R I Q
25441 - AGTTCCTAGAATCTCTTCCTTAGCATTAGGTGCTTCTGAAGGTAGTACATAAAATGCAGA - 25500
      - S S * N L F L S I R C F * R * Y I K C R
      - V P R I S S L A L G A S E G S T * N A D
      - F L E S L P * H * V L L K V V H K M Q I
25501 - TTTGCATTTCTTAAGAGCAGTCTTAGCTTCCTCAAGTGATAACCAGCACATCCTTGTCC - 25560
      - F A F L K S S L S F L K C I T S T S L S
      - L H F L R A V L A S S S V * P A H P C P
      - C I S * E Q S * L P Q V Y N Q H I L V Q
25561 - AGGGTACGTGGTTATATACTCATCAACTGGCACTTTCTTCAAAGCTCTTGAGAGCATCTC - 25620
      - R V R G Y I L I N W H F L Q S S * E H L
      - G Y V V I Y S S T G T F F K A L E S I S
      - G T W L Y T H Q L A L S S K L L R A S Q
25621 - AGTAGTGCCACCAGCCTTTTGGAGGGTATTACAACACAAGTGATATCACCAGTAGTGAT - 25680
      - S S A T S L F G G Y Y N T S D I T T S D
      - V V P P A F L E G I T T Q V I S P L V I
      - * C H Q P F W R V L Q H K * Y H H * * *
25681 - AACATCACCTACCATGTAAGGTGCATCCTTCTCAAGGAAAGACATATCTTCACCTCTAAG - 25740
      - N I T Y H V R C I L L K E R H I F T S K
      - T S P T M * G A S F S R K D I S S P L S
      - H H L P C K V H P S Q G K T Y L H L * A
25741 - CATGTTCTGAGAATCATGGTAAAGCTTACCATTGATATCAGCAAACAAGAGTAACTTATT - 25800
      - H V L R I M V K L T I D I S K Q E * L I
      - M F * E S W * S L P L I S A N K S N L L
      - C S E N H G K A Y H * Y Q Q T R V T Y W
25801 - GGTAAGAAACTTAGTTTCTTCCAGTGTGTGGTAACCTCATCAATGCAGGCCTTAATTTT - 25860
      - G K K L S F F Q C C G N L I N A G L N F
      - V R N L V S S S V V V T S S M Q A L I F
      - * E T * F L P V L W * P H Q C R P * F L
25861 - TGGCTTCACATCGACAGGCTTCTGTACGACAGATTCTCCTCAGTTTTGGAATCTTCTGT - 25920
      - W L H I D R L L Y D R F L L S F G I F C
      - G F T S T G F C T T D F S S V L E S S V
      - A S H R Q A S V R Q I S P Q F W N L L C
25921 - GTTTGGTGGCTCCTCTTGTTTAGGTGCTTCCACTCTAGGCTTCAGGTTATCAAGATAATC - 25980
      - V W W L L L F R C F H S R L Q V I K I I
      - F G G S S C L G A S T L G F R L S R * S
      - L V A P L V * V L P L * A S G Y Q D N P
25981 - CATGACAACCTGCTCATAAAGAGCTTTGTTCATTGACTGCAATATAAACCTGTGTACGAAC - 26040
      - H D N L L I K S F V I D C N I N L C T N
      - M T T C S * R A L S L T A I * T C V R T
      - * Q P A H K E L C H * L Q Y K P V Y E P

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FIG. 12 Con't

26041 - CGTCTGCACGCACACTTGTAAAGACTGAAGTGGTTTAGCACCAAATATGCCTGCTGACAA - 26100
 - R L H A H L * R L K W F S T K Y A C * Q
 - V C T H T C K D * S G L A P N M P A D N
 - S A R T L V K T E V V * H Q I C L L T T
 26101 - CAATGGTGCAAGTAAGATGTCCTGTGAATTGAAATTTTCATATGCTGCCTTAAGAAGCTG - 26160
 - Q W C K * D V L * I E I F I C C L K K L
 - N G A S K M S C E L K F S Y A A L R S W
 - M V Q V R C P V N * N F H M L P * E A G
 26161 - GATGTCCTCACCTGCATTAGGTTAGGTCCAACAACATGCAGACACTTCTTAGCAAGATT - 26220
 - D V L T C I * V R S N N M Q T L L S K I
 - M S S P A F R L G P T T C R H F L A R L
 - C P H L H L G * V Q Q H A D T S * Q D Y
 26221 - ATGTCCAGAAAGCAAACAAGACCCTCTACTGTAAGAGGGCCATTAGCTTAATGTAATC - 26280
 - M S R K Q T R P S Y C K R A I * L N V I
 - C P E S K Q D P P T V R G P F S L M * S
 - V Q K A N K T L L L * E G H L A * C N H
 26281 - ATCACTCTCCTTTTGCATGGCACCATTGGTTGCCTTGTGAGTGCACCTGCTACACCACC - 26340
 - I T L L L H G T I G C L V E C T C Y T T
 - S L S F C M A P L V A L L S A P A T P P
 - H S P F A W H H W L P C * V H L L H H H
 26341 - ACCATGTTTCAGGTGTATGTTAGCAGCATTACAAATCACCATAGGATTAGCACTTTGTGC - 26400
 - T M F Q V Y V S S I Y N H H R I S T L C
 - P C F R C M L A A F T I T I G L A L C A
 - H V S G V C * Q H L Q S P * D * H F V P
 26401 - CTCCTTAACGATGTCAACACATTTAATGGCAACATTGTCAGTAAGTTTTAAATAACCACT - 26460
 - L L N D V N T F N G N I V S K F * I T S
 - S L T M S T H L M A T L S V S F K * P V
 - P * R C Q H I * W Q H C Q * V L N N Q *
 26461 - AAAGTATTAAGTGGTTCTTCAGGTGATGGTTCTGGTTCTGGCTCAATCTCTGATTGCTC - 26520
 - K L I N W F F R C R F W F W L N L * L L
 - N * L T G S S G V G S G S G S I S D C S
 - T D * L V L Q V * V L V L A Q S L I A Q
 26521 - AGTAGTATCATCCAGCCAGTCTTCTCTTCTTCTTCTCAACTCGAACTGTTTCAGCTGA - 26580
 - S S I I Q P V F L F F F L N S N C F S *
 - V V S S S Q S S S S S S S T R T V S A E
 - * Y H P A S L P L L L P Q L E L F Q L R
 26581 - GGCACCAAATTCAGAGGGAGACCTTGATAATCATCCTCTGTACCGTACTCATGTTTCA - 26640
 - G T K F Q R E T L I I I L C T V L M F T
 - A P N S R G R P * * S S S V P Y S C S Q
 - H Q I P E G D L D N H P L Y R T H V H R
 26641 - GGTTCATCAATTTCTTCTTCTCCTCACACTCTGCATCGTCTCTTCTTCTCCTCATCTGGAGG - 26700
 - G F I N F F F L T L C I V L F F L I W R
 - V S S I S S S S H S A S S S S S S S G G
 - F H Q F L L P H T L H R P L L P H L E G
 26701 - GTAAAAGGAACAATACATACGTGATGAAAAGTTTTCTTCACCAGCATCATCAAATAAGTA - 26760
 - V K G T I H T * * K V F F T S I I K * V
 - * K E Q Y I R D E K F S S P A S S N K *
 - K R N N T Y V M K S F L H Q H H Q I S R
 26761 - GAATGTAGCTACACTCCACTCATCAAGATCAATACCCATGTTGGTAAGGAGATCAGAAAC - 26820
 - E C S Y T P L I K I N T H V G K E I R N
 - N V A T L H S S R S I P M L V R R S E T
 - M * L H S T H Q D Q Y P C W * G D Q K L
 26821 - TGGTTGTAAAGTCTTCACAACAGCCTCTGCTACAACACATGCAAACCTCAGTAACCTCGGT - 26880
 - W L * S L H N S L C Y N T C K L S N F G
 - G C K V F T T A S A T T H A N S V T S V
 - V V K S S Q Q P L L Q H M Q T Q * L R Y

FIG. 12 Con't

26881 - ACCGGATTCAACAGTGTAGACAGAGCACTTTTCATTAAGCACTTTGTCAACACGTTTCATC - 26940
 - T G F N S V D R A L F I K H F V N T F I
 - P D S T V * T E H F S L S T L S T R S S
 - R I Q Q C R Q S T F H * A L C Q H V H Q
 26941 - AAGCTCAAATGTGATTCTCACATTCTTGTAACCTTGAACCTCCCAAACAGTATCTTCTCC - 27000
 - K L K C D S H I L V T L N F P N S I F S
 - S S N V I L T F L * P * T S Q T V S S P
 - A Q M * F S H S C N L E L P K Q Y L L Q
 27001 - AAAGGTTACACCTTTAATTGGTGCACCCCTTTTAAGCGAAAGACATTGTTTGTAGCCAG - 27060
 - K G Y T F N W C T P F * A K D I V C S Q
 - K V T P L I G A P P F K R K T L F V A S
 - R L H L * L V H P L L S E R H C L * P V
 27061 - TAAACCAGGAGACAATGCGCAGTATTGTTCTTTGTCCTTAATCTCTAAGAGCATGAGGCC - 27120
 - * T R R Q C A V L F F V L N L * E H E A
 - K P G D N A Q Y C S L S L I S K S M R P
 - N Q E T M R S I V L C P * S L R A * G H
 27121 - ATTTACACAGACTGGTGTGCCGACGATAGCTCCATTTGTGAAGCTATCAACGGGCGTCTC - 27180
 - I Y T D W C A D D S S I C E A I N G R L
 - F T Q T G V P T I A P F V K L S T G V S
 - L H R L V C R R * L H L * S Y Q R A S R
 27181 - GAGTGCTTCGAGTTCACCGTTCTTGAGAACACCTCCTCAGAGGTAAGTACTGTGTCATG - 27240
 - E C F E F T V L E N N L L R G K Y C V M
 - S A S S S P F L R T T S S E V S T V S C
 - V L R V H R S * E Q P P Q R * V L C H V
 27241 - TGAATCACCTTCAAGAAAGGTTACTTCTTTTGGTGCCTTAAGAGGCATGAGTAGTTGCAG - 27300
 - * I T F K K G Y F F W C L K R H E * L Q
 - E S P S R K V T S F G A L R G M S S C S
 - N H L Q E R L L L V P * E A * V V A A
 27301 - CTGCTCCTTGCCACGTATACACTGACGGTAAAGTCCCTTGCTTTGAGCGATGAAGACTTC - 27360
 - L L L A T Y T L T V K S L A L S D E D F
 - C S L P R I H * R * S P L L * A M K T S
 - A P C H V Y T D G K V P C F E R * R L H
 27361 - ACCTAAGTTGAGTGATCGCAACTTTGCGCCAGCGATAGTGAAGTATGATCAATGCACATTC - 27420
 - T * V E * S Q L C A S D S D L I N A H F
 - P K L S D R N F A P A I V T * S M H I S
 - L S * V I A T L R Q R * * L D Q C T F R
 27421 - GAGTGCTTGTTAACAACATCAATGAAGCATTTTACACAATCCTTGATGTTATCTGAAGC - 27480
 - E C L V N N I N E A F Y T I L D V I * S
 - S A L L T T S M K H F T Q S L M L S E A
 - V P C * Q H Q * S I L H N P * C Y L K Q
 27481 - AACCTGTATTTGACCCTTGACGATGTCAAAAACACCTGTAATGAGAAATTTGAGAATCTC - 27540
 - N L Y L T L D D V K N T C N E K F E N L
 - T C I * P L T M S K T P V M R N L R I S
 - P V F D P * R C Q K H L * * E I * E S P
 27541 - CCAAGCATCCTTGAGAAATTCAACTCCTGCACTAAGTTTCGCCTCAATCCATTCAAAGAT - 27600
 - P S I L E K F N S C T K F R L N P F K D
 - Q A S L R N S T P A L S F A S I H S K I
 - K H P * E I Q L L H * V S P Q S I Q R *
 27601 - AGGCCTGAGTTTTTCAACAGTAGTGCCCAAAAGATTAGACAACCACTGAGAAGTCTGTTG - 27660
 - R P E F F N S S A Q K I R Q P L R S L L
 - G L S F S T V V P K R L D N H * E V C C
 - A * V F Q Q * C P K D * T T T E K S V V
 27661 - TACAAGACCACAGTTACATATGCCATAATAATGACACTGTTGGTGAGCAGGTCTGAAGT - 27720
 - Y K T T S Y I C H N N D T V G E Q V * S
 - T R P P V T Y A I I M T L L V S R S E V
 - Q D H Q L H M P * * * H C W * A G L K Y

FIG. 12 Con't

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27721 - ATAAACCATGGCGTCGACAAGACGTAATGACTGTTTCAGAAATACCATCAAGTATGGTGAC - 27780
- I N H G V D K T * * L F R N T I K Y G D
- * T M A S T R R N D C S E I P S S M V T
- K P W R R Q D V M T V Q K Y H Q V W * Q
27781 - AGCTGCTCTTTGCAAATCAGGAATTGAGTGGTTTGCTGCATCAAGTGTGCGCGCAAAAAT - 27840
- S C S L Q I R N * V V C C I K C A R K N
- A A L C K S G I E W F A A S S V R A K I
- L L F A N Q E L S G L L H Q V C A Q K L
27841 - TGATCTGATAACACCAGCAGCCTGTGAGGGAAAACACACAGTGGTGTAAACTGATCT - 27900
- * S D N T S S L * G K T T Q W C * N * S
- D L I T P A A C E G K P H S G V K T D L
- I * * H Q Q P V R E N H T V V L K L I S
27901 - CTGTTGTCCAATGTTCCAAGCACCTTTTACGGGCTTTCCCTTGGTAACTTTATAGTTACC - 27960
- L L S N V P S T F Y G L S L G N F I V T
- C C P M F Q A P F T G F P L V T L * L P
- V V Q C S K H L L R A F P W * L Y S Y R
27961 - GCAGGACTCAACAATGGTTTTGAAAGACTTGTAATCAAGACTCTTTATAGTGTCAATAAA - 28020
- A G L N N G F E R L V I K T L Y S V N K
- Q D S T M V L K D L * S R L F I V S I K
- R T Q Q W F * K T C N Q D S L * C Q * R
28021 - GGCACCTTGTAGAAGCAGAGAAAGATGCCAAAATGATGGCAACCTCTTCATTCAAATGAAA - 28080
- G T C R S R E R C Q N D G N L F I Q M K
- A L V E A E K D A K M M A T S S F K * K
- H L * K Q R K M P K * W Q P L H S N E N
28081 - ATCGCCAACAATGTTAATGTTAACACGTTTCAGACTCAGTATCTCAAGGAGATCCTCATT - 28140
- I A N N V N V N T F T T Q Y L K E I L I
- S P T M L M L T R S R L S I S R R S S F
- R Q Q C * C * H V H D S V S Q G D P H S
28141 - CAAGGTCTCCACATTGTCCACAGTAATGCCAGTATGGCCTGAGCCAATATCAGCACTAGC - 28200
- Q G L H I V T S N A S M A * A N I S T S
- K V S T L S P V M P V W P E P I S A L A
- R S P H C H Q * C Q Y G L S Q Y Q H * H
28201 - ACGAGGAACCCAGTAGGCACGCTTATTATAGCAGCCAACATAGGCAAACACACAGCCTCC - 28260
- T R N P V G T L I I A A N I G K H T A S
- R G T Q * A R L L * Q P T * A N T Q P P
- E E P S R H A Y Y S S Q H R Q T H S L Q
28261 - AAAACATCTAGTCCTACCTCCCTTGCGGAGTCGAGTTTCAATGTTTGAGTGGTTGTGATA - 28320
- K T S S P T S L A E S S F N V * V V V I
- K H L V L P P L R S R V S M F E V L * *
- N I * S Y L P C G V E F Q C L S G C D N
28321 - ATCTGCAACACTATGCTCAGGTCCAATCTCTGGGTCTTGACAGGCAGGACATGGCATT - 28380
- I C N T M L R S N L W V L T G R T W H F
- S A T L C S G P I S G S * Q A G H G I F
- L Q H Y A Q V Q S L G L D R Q D M A F S
28381 - CACTACAGCATTAGTAGGTAGGTACCCACATGTAGTAGGTCCTTCAATAACTAAATTTTC - 28440
- H Y S I S R * V P T C S R S F N N * I F
- T T A L V G R Y P H V V G P S I T K F S
- L Q H * * V G Y T H M * * V L Q * L N F Q
28441 - AGTGCCACAATGTTTCACAAGTGGCTTTTCAGAAAGTCGCACGTCTGCCATGAACTTCATC - 28500
- S A T M F T S G F Q K V A R L P * N F I
- V P Q C S Q V A F R K S H V C H E T S S
- C H N V H K W L S E S R T S A M K L H R
28501 - GCAATGATTACATTTTCATCAAGGTAGACAAGTGCATATTGTTACACTCCTGTGGAGATGC - 28560
- A M I T F H Q G R Q V H I V T L L W R C
- Q * L H F I K V D K C I L L H S C G D A
- N D Y I S S R * T S A Y C Y T P V E M Q

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FIG. 12 Con't

28561 - AACAGGGTACACAGAGCGTATACGCCCATGAAACCTCAGTCTTTTTCTTTTCAACACG - 28620
 - N R V H R A Y T P H E T L S L F L F N T
 - T G Y T E R I R P M K P S V F F F S T R
 - Q G T Q S V Y A P * N P Q S F S F Q H V
 28621 - TGGTTGAATGACTTTGACTTTTGGAGTTAAGAGGAAACACAACTTTGGGCATTCCCCTTT - 28680
 - W L N D F D F * V K R K H K L W A F P F
 - G * M T L T F E L R G N T N F G H S P L
 - V E * L * L L S * E E T Q T L G I P L *
 28681 - GAAAGTGTCAAATTTCTTGGCACTCTTAATTTTGAAGGGTGTCTGGTGCTCGTAGCTCTT - 28740
 - E S V K F L G T L N F E G C L V L V A L
 - K V S N F L A L L I S K G V W C S * L L
 - K C Q I S W H S * F R R V S G A R S S Y
 28741 - ATCAGAGCGCTCAGTGAACCAGGCAATTTTCATGCTCATGGTCACGGCAGCAGTAGACACC - 28800
 - I R A L S E P G N F M L M V T A A V D T
 - S E R S V N Q A I S C S W S R Q Q * T P
 - Q S A Q * T R Q F H A H G H G S S R H L
 28801 - TCTCTTCGACTCGATGTAATCAAGTTGTTTCGAAAGAGTGCACATTGACTTGCCCGCGCG - 28860
 - S L R L D V I K L F G K S A H * L A R A
 - L F D S M * S S C S E R V H I D L P A R
 - S S T R C N Q V V R K E C T L T C P R V
 28861 - TGCGAGAAAATCTTTGATGCAATCAAGAGGGTACCCATCTGGGCCACAGAAATTGTTGTC - 28920
 - C E K I F D A I K R V P I W A T E I V V
 - A R K S L M Q S R G Y P S G P Q K L L S
 - R E N L * C N Q E G T H L G H R N C C R
 28921 - GACATAGCGAGTGACTGCACCTCCATTGAGCTCACGAGTGAGTTCACGGAGTGCACTACT - 28980
 - D I A S D C T S I E L T S E F T E C T T
 - T * R V T A P P L S S R V S S R S A P L
 - H S E * L H L H * A H E * V H G V H C
 28981 - GCCATGCTTAGTGTTCAGTTTTGTTTCATAATCTTCAATGGGATCAGTGCCAAGCTCGTC - 29040
 - A M L S V P V L F I I F N G I S A K L V
 - P C L V F Q F C S * S S M G S V P S S S
 - H A * C S S F V H N L Q W D Q C Q A R H
 29041 - ACCTAAGTCATAAGACTTTAGATCGATGCCATAGCTATGACCACGGCTCCCTTATTACC - 29100
 - T * V I R L * I D A I A M T T G S L I T
 - P K S * D F R S M P * L * P P A P L L P
 - L S H K T L D R C H S Y D H R L P Y Y R
 29101 - GTTCTTACGAAGAAGAACATTGCGGTATGCAATTGGGGTTTCGCCACATGTGGCACGAG - 29160
 - V L T K K N I A V C N W G F A H M W H E
 - F L R R R T L R Y A I G V S P T C G T S
 - S Y E E E H C G M Q L G F R P H V A R V
 29161 - TACTCCCAGTGTATACCGCTACGACCGTACTGAATGCCGTCCATTTCTGCAACCAGCTC - 29220
 - Y S Q C Y T A T T V L N A V H F C N Q L
 - T P S V I P L R P Y * M P S I S A T S S
 - L P V L Y R Y D R T E C R P F L Q P A Q
 29221 - AACGACCTTGTGGCCGTGATTGGTGCTTAAGGCATCAGAACGTTTAAATGAACACATAGGG - 29280
 - N D L V A V I G A * G I R T F N E H I G
 - T T L W P * L V L K A S E R L M N T * G
 - R P C G R D W C L R H Q N V * * T H R A
 29281 - CTGTTCAAGCTGGGGCAGTACGCCTTTTCCAGCTCTACTAGACCACAAGTGCCATTTTT - 29340
 - L F K L G Q Y A F F Q L Y * T T S A I F
 - C S S W G S T P F S S S T R P Q V P F L
 - V Q A G A V R L F P A L L D H K C H F *
 29341 - GAGGTGTTACGTGCCTCCGATAGGGCCTCTTCCACAGAGTCCCCGAAGCCACGCACTAG - 29400
 - E V F T C L R * G L F H R V P E A T H *
 - R C S R A S D R A S S T E S P K P R T S
 - G V H V P P I G P L P Q S P R S H A L A

FIG. 12 Con't

90/90

29401 - CACGTCTCTAACCTGAAGGACAGGCAAACCTGAGTTGGACGTGTGTTTTCTCGTTGACACC - 29460
- H V S N L K D R Q T E L D V C F L V D T
- T S L T * R T G K L S W T C V F S L T P
- R L * P E G Q A N * V G R V F S R * H Q
29461 - AAGAACAAGGCTCTCCATCTTACCTTTTCGGTCACACCCGGACGAAACCTAGGTATGCTGA - 29520
- K N K A L H L T F R S H P D E T * V C *
- R T R L S I L P F G H T R T K P R Y A D
- E Q G S P S Y L S V T P G R N L G M L M
29521 - TGATCGACTGCAACACGGACGAAACCGTAAGCAGTCTGCAGAAGAGGGACGAGTTACTCG - 29580
- * S T A T R T K P * A V C R R G T S Y S
- D R L Q H G R N R K Q S A E E G R V T R
- I D C N T D E T V S S L Q K R D E L L V
29581 - TTTCTTGTCAACGACAGTAAAATTTATTATTGTTTATACTGCGTAGGTGCACTAGGCATG - 29640
- F L V N D S K I Y Y C L Y C V G A L G M
- F L S T T V K F I I V Y T A * V H * A C
- S C Q R Q * N L L L F I L R R C T R H A
29641 - CAGCCGAGCGACAGCTACACAGATTTTAAAGTTTCGTTTAGAGAACAGATCTACAAGAGAT - 29700
- Q P S D S Y T D F K V R L E N R S T R D
- S R A T A T Q I L K F V * R T D L Q E I
- A E R Q L H R F * S S F R E Q I Y K R S
29701 - CGAGGTTGGTTGGCTTTTCCTGGGTAGGTAAAAACCTAATAT - 29742
- R G W L A F P G * V K T * Y X
- E V G W L F L G R * K P N X
- R L V G F S W V G K N L I X

FIG. 12 Con't